8-13-15 Name change:SSM HE

Sewer Acct. #:

4112195100

Company: ST LOUIS UNIVERSITY HOSPITAL

Address: 3635 & 3655 Vista Ave.

City: St. Louis

State and Zip: MO 63110

Ind_id

File Code

File Description

64140

40

PERMIT



Metropolitan St. Louis Sewer District

Division of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913

Phone: 314,768,6200 www.stlmsd.com

VIA CERTIFIED MAIL # 70153430000104871277

September 16, 2020

Madison Himelright
Environmental Safety Specialist

SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL
1015 Corporate Square Dr., Suite 110
St. Louis, MO 63132

Re: Discharge Permit No: 1020548801

For premise at: 3635 & 3655 Vista Avenue, Saint Louis, MO 63110

Dear Ms. Himelright:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Removal of silver monitoring at Sample Points 001 & 002
- Removal of Special Condition A.3: Sampling / Reporting Requirement for Ordinance Total Phenols
 using EPA Method 420.1. This was an allowance made when MSD's small river total phenols local
 limit was only 0.15 mg/L. However, that limit no longer applies, and all MSD total phenols local limits
 are 21 mg/L.

The previous permit, effective September 1, 2015, is voided as of the effective date of the enclosed permit.

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

A draft version of the permit was previously sent to you. MSD received no comments back regarding the draft.

Please be aware that an annual permit fee will be added to your monthly sewer bill, or you will receive a separate bill, to cover administrative costs associated with the permit, as provided for under MSD ordinance 12413. The fee is normally added to the last bill of each calendar year, or shortly thereafter.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8762, if you have any questions.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

Carly Reidt

Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit, Radioactive Materials Discharge Report, Self-monitoring Report Form, Self-monitoring Report Instructions

bv

ec: Doug Mendoza Dave Kupke

METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548801

EFFECTIVE DATE:

September 01, 2020

EXPIRATION DATE:

August 31, 2025

ISSUED TO: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

3635 & 3655 Vista Avenue St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5 SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 15048, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Assistant Engineer

Mar. of Industrial Pretreatment

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DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH in driveway W of loading dock, 50' N of Vista, near SW corner of

main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 65,256

WASTEWATER SOURCE AND CATEGORY: Hospital Waste (including lab waste) + Boiler Blowdown + Kitchen Waste + Non-Contact Cooling Water (HVAC) + Sanitary + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
	***	D-8. A	Om n n / 2
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	VIICE/3 IIIU
Flow [GPD]		Daily Avg	0
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenois [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section
 II of the permit conditions for explanation of any adjustments to the published limits made pursuant to
 Article V. Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

002

SAMPLING POINT LOCATION:

MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 38,254

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenois [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

^{**} See Section I.A.2 of the permit conditions.

^{***} Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

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DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

003

SAMPLING POINT LOCATION:

MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 5,626

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

Parameter	Limit*	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 ma
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section
II of the permit conditions for explanation of any adjustments to the published limits made pursuant to
Article V, Section 2.B of the Ordinance.

^{**} See Section I.A.2 of the permit conditions.

^{***} Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

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DISCHARGE LIMITATIONS

004

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 302

WASTEWATER SOURCE AND CATEGORY: Non-Contact Cooling Water + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
oH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

^{**} See Section I.A.2 of the permit conditions.

^{***} Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

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DISCHARGE LIMITATIONS

005

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

MH 93' S, 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 3,150

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
	***	**	0
Biochemical Oxygen Demand (5 Day) [mg/L]		Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenois [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section If of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

- 1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.
 - 2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A DAILY MAX limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A MONTHLY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive <u>sampling</u> days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

- 3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:
 - a. Temperature, pH and chlorine residual measurements, when required, shall be made on-site at the points of discharge and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
 - b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.
 - c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

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4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

- a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.
- b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

- 5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.
- 6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.
- 7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 15048. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.
- 8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.
- 9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:
 - a. All facility and sample description information required on the District's reporting form.
 - b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
 - c. Daily flows, with dates, for all measurements or estimates made within the quarter.
 - d. Any certification statements required pursuant to the Special Conditions in Section II.
 - Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 15048. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 28

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for <u>each</u> calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. The <u>first report</u> under this permit is due by <u>October 28, 2020</u>. For non-quarterly self-monitoring requirements, the permit year commences on <u>July 1</u>.

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

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11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

- 1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.
- 2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.
 - 3. As defined in Article II of District Ordinance 15048, significant new or increased discharge means:
 - Any discharge from a new process or facility or a new source.
 - b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 15048.
 - e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 15048.
 - g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

- 1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.
- 2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

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continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

- 1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.
- 2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 15048, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 15048 until the District issues a new permit or denies the application.

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I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 15048.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 15048.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District Division of Environmental Compliance 10 East Grand Avenue St. Louis, Missouri 63147-2913

- 2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.
- 3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

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SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points **004** & **005** using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

A.2. No Monitoring When Influenced by Storm Runoff

Sampling points **001**, **002**, **003**, **004**, and **005**, may, at times, convey storm water in addition to wastewater regulated by this permit. The self-monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

B.1. Certification Requirement for Sampling Points with less than Quarterly Sampling Frequency

At sampling point **004**, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
 - 5 curies Hydrogen-3
 - 1 curie Carbon-14
 - 1 curie for all other radioactive materials combined
- (2) For all other materials:
 - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 15048.

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The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

C. SPECIAL BILLING REPORTING REQUIREMENTS

C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on SIXTY-EIGHT (68) percent of the used water (on an annual basis) being discharged to the District from account numbers 1122333 & 1123327. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORM	ATION				
Company Name: SSM HEALTH ST L	OUIS UN	IIVERSITY HOSPI	ITAL		
Permit No: 1020548801 Effec	tive Date	: 09/01/2020	Expiration Da	ate: 08/31/2025	
Premise Address: 3635 & 3655 Vista	Avenue, (63110			
Monitoring Period: □(JAN-MAR)		□(APR-JUNE)	□(JULY-SEP	т) 🗆 🖂 (ОС	CT-DEC)
Samples Collected By:					
Analyses Performed By:					
PART II: ANALYTICAL RESULT	S OF SE	LF MONITORING	i		
MSD SAMPLE POINT REFERENCE NUMBERS	⇔				
DATES ON WHICH SAMPLES WERE COLLECTED	\$				
TIMES AT WHICH SAMPLES WERE COLLECTED	⇔				
PARAMETER	LIMIT		YPES (G, C, M OR E) ANI posite, M=measured flow, E=		UNITS
FLOW					
	!				
	1	II.			

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.

A - No Change in Wastewater Discharge at Sampling Points with No Monitoring Required

D - Grab in Lieu of Composite Represents Wastewater Discharge

For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:

_____I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PART IV: GENERAL CERTIFICATION STATEMENTS

B. Certify Discharge Monitoring Report & Attachments

All permittees must sign and complete the information below:

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or ty	pe name of signing official:
Title:	Telephone:
Signature	Date:

Send to: DECPT@stimsd.com

point 004.

If you do not have access to email, the form may be mailed to:

METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE 10 GRAND AVE ST. LOUIS, MO 63147

Please do not submit both an emailed report and a mailed report.

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART	: IDENTIFYING INFORMATION								
Compa	iny Name: SSM HEALTH ST LOUIS UNIVERSITY HOS	PITAL							
Permit	No: <u>10200548801</u>								
Premis	e Address: 3635 & 3655 Vista Avenue, 63110								
Reporti	ing Period: □(JAN-MAR) □(APR-JUNE) □(JULY	-SEPT) (OCT-DEC)							
PART	II: RECORD OF DISPOSAL OF RADIOACTIVE	MATERIALS TO THE SEWER SYSTEM							
	RADIONUCLIDE ACTIVITY DISCHARGED (millicuries)								
	TOTAL ACTIVITY DISCHARGED:								
PART	II: CERTIFICATION STATEMENTS								
Place y Everyo	our initials in the box under item A. ne must complete the information under items A & I	3 and sign this report.							
A.	CERTIFICATION OF COMPLIANCE WITH STATE AN	D FEDERAL REGULATIONS							
	I certify that to the best of my knowledge & belief, all requiren governing disposal by release into sanitary sewage for mater Missouri Department of Health, respectively, have been met i	ial regulated by the Nuclear Regulatory Commission and the							
B.	RADIOACTIVE MATERIALS DISCHARGE REPORT C	ERTIFICATION							
with a sy of the pe submitte	ystem designed to assure that qualified personnel properly gat erson or persons who manage the system, or those persons di	vere prepared under my direction or supervision in accordance her and evaluate the information submitted. Based on my inquiry rectly responsible for gathering the information, the information nd complete. I am aware that there are significant penalties for conment for knowing violations.							
Print/ty _l	pe name of signing official:	-							
		Telephone:							
		Date:							
	DECPT@stImsd.com								
If you d	o not have access to email, the form may be mailed to:	METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE 10 E. GRAND AVE ST. LOUIS, MO 63147							
Please	do not submit both an emailed report and a mailed repo								

v.4/22/2020

METROPOLITAN ST. LOUIS SEWER DISTRICT - DIVISION OF ENVIRONMENTAL COMPLIANCE

INSTRUCTIONS FOR COMPLETING INDUSTRIAL USER SELF MONITORING REPORT

- Monitoring reports are to be submitted to MSD on a quarterly basis. Samples must be collected within the calendar quarter and the results submitted to the MSD Division of Environmental Compliance within 28 days after the end of the quarter. You must submit a report for each quarter even if you had no discharge during the quarter.
- You must use the reporting forms provided by MSD unless you obtain approval from MSD to use a company designed form.
 Any non-MSD form must include all of the information and certifications included in the MSD form.
- 3. The MSD form, properly filled out & signed, constitutes your complete monitoring report. Please do not include a cover letter or any attachments unless they are absolutely essential to explain information on the form or to explain reporting deficiencies or problems. When you sign the report form you will certify that all information contained therein is true, complete and accurate.
- 4. Print or type all information. Fill in all blanks. Use additional copies of the form if more space is needed.
- 5. All analyses must be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed for specific parameters. Provide the name of the laboratory that performed the analyses. If the analyses were performed in-house, provide the name and title of the individual responsible for the analyses.
- 6. Provide the MSD sample point reference numbers for which the data is being submitted. These numbers are contained in your permit. You must use the MSD sample point reference numbers to ensure accurate evaluation of your company's compliance status.
- 7. You must report analytical results for all the parameters listed in your permit. If you monitor your discharges more often than required by the permit, using approved methods, the results of all such monitoring and any additional flow measurements must be included in the report.
- 8. For Total Toxic Organics analysis, record the "Total" on the MSD form. <u>Attach a list of the individual toxic organics analyzed and their individual results. You may attach the results page from the laboratory analytical report in order to provide the list of toxic organics.</u>
- 9. In the blanks provided, print or type the parameters and limits listed in your permit. Record the date and time each sample was collected. If a composite sample spans two days, record the dates the compositing period started and ended and record the times the compositing period started and ended. Record the type of sample (use G for grab, C for composite; and for flow measurement use M for measured flow, E for estimated flow) and enter the results in the appropriate space. The following example has been provided to show you how to fill in the data.

MSD SAMPLE POINT REFERENCE NUMBERS	⇔		001		002		
DATES ON WHICH SAMPLES WERE COLLECTED	⇔		1-8-2010	1	-8 to 1-9-2010		
TIMES AT WHICH SAMPLES WERE COLLECTED	⇔	8:3	0 am - 5:00 pm	9:()0 am - 8:00 am		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)			UNITS		
FLOW		Œ	4800	Œ	35000		GPD
Chemical Oxygen Demand		С	550	С	790		mg/L
Cadmium	0.69/0.2 6	С	< 0.001	С	0.17		mg/L

- Report only the <u>results</u> of your analyses. <u>Do not attach copies</u> of laboratory sheets (except to provide results for the individual individual toxic organics), QA/QC information or other documents unless MSD has specifically requested them or you believe they are essential to the report. However, you must retain all lab sheets and material pertinent to the sampling and analyses for a period of at least 5 years, and MSD may inspect or request copies of these materials during this period.
- 11. If you have no discharge from a sample point during the entire reporting quarter, write "No Discharge" across the line marked "Flow."
- 12. Review the certification statements in Part III and statement A in Part IV, if applicable, and initial those that apply to your facility for the quarter.
- 13. Complete the information under certification statement B in Part IV. Sign and date the report. You must be authorized to sign reporting documents in accordance with MSD ORD. 15048, Article X, Section Three, Paragraph B.
- Attach any additional reports required (See page two of instructions).
- 15. email completed report to: <u>DECPT@stimsd.com</u>. If you cannot email the form, mail it to: METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE 10 E. Grand Ave. St. Louis, MO 63147

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Please do not submit both an emailed report and a mailed report.

MSD 037139

ADDITIONAL REPORTS

In addition to quarterly self monitoring reports, the General and Special Conditions of your permit require that MSD be advised of certain events or changes at your facility. This is a reminder of those reporting requirements. Please review your permit carefully for the specifics of any of these requirements which may apply to you.

I. GENERAL CONDITION REPORTING REQUIREMENTS

- 1. If you monitor pH or temperature continuously at any discharge point, you must include, with each quarterly self monitoring report, a summary of pH or temperature excursions for each month in the quarter. See General Condition I.A.7 in your permit.
- If any sampling, using approved methods, indicates a violation of any permit limitation, MSD must be notified within one business
 day of your becoming aware of the violation. In addition you must resample the discharge and the results of resampling must be
 submitted to MSD within 30 days of your becoming aware of the violation. See General Condition I.A.10 in your permit.
- Any significant new or increased discharge must be reported at least 10 business days prior to the planned increase or addition.
 See General Condition I.B.2 in your permit.
- 4. Any problem discharge must be reported to MSD immediately by telephone and a written report submitted within 5 business days. See General Condition I.C.2 in your permit.
- 5. Any anticipated bypass of pretreatment facilities must be reported to MSD in advance. See General Condition i.D in your permit.

II. SPECIAL CONDITION REPORTING REQUIREMENTS

- If any of the categorical limitations in your permit are based on production rates, a report on the production rates for each regulated process must accompany each quarterly self monitoring report.
- If any of the categorical limitations in your permit have been calculated using the Combined Wastestream Formula (CWF), any
 conditions which may change the calculated limitations must be reported to MSD at least 10 business days prior to the change.
- If you have been granted a credit for used water which does not enter the sewer, any conditions which may change the amount of that credit must be reported to MSD within 10 business days of your becoming aware of those changes.
- If your permit contains a schedule of compliance, reports under that schedule must be submitted no later than 14 business days after each date in the schedule.
- If you plan to divert any wastewater from an existing NPDES discharge point to the District's system, you must notify MSD at least 10 business days prior to the planned change.

III. OTHER INFORMATION REQUIREMENTS

- If your permit waives monitoring at any sample point specified in your permit, or at any connection point not specified as a sample point in your permit, you must advise MSD any time the character of the waste discharge at any such point changes.
- If your permit waives monitoring at any inactive connection points, you must advise MSD prior to activating any such point.

If there is any question concerning these reporting requirements, please contact us for clarification or assistance at 314-436-8710.



Metropolitan St. Louis Sewer District

Division of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913

Phone: 314,768,6200 www.stimsd.com

August 17, 2020

Madison Himelright
Environmental Safety Specialist
SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL
1015 Corporate Square Dr., Suite 110
St. Louis, MO 63132

Re: Discharge Permit No:

1020548801

For premise at:

3635 & 3655 Vista Avenue, Saint Louis, MO 63110

Dear Ms. Himelright:

The Metropolitan St. Louis Sewer District has completed its review of your application for renewal of the Industrial Wastewater Discharge Permit for the above premise. The current permit expires on August 31, 2020.

Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the draft permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Removal of silver monitoring at Sample Points 001 & 002
- Removal of Special Condition A.3: Sampling / Reporting Requirement for Ordinance Total Phenols
 using EPA Method 420.1. This was an allowance made when MSD's small river total phenols local
 limit was only 0.15 mg/L. However, that limit no longer applies, and all MSD total phenols local limits
 are 21 mg/L.

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the draft permit, and we will proceed to issue the final permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8762, if you have any questions.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

Carly Reidt

Assistant Engineer

Enclosures: Draft Industrial Wastewater Discharge Permit

ec: Doug Mendoza Dave Kupke

METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548801

EFFECTIVE DATE:

September 01, 2020

EXPIRATION DATE:

August 31, 2025

ISSUED TO: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

3635 & 3655 Vista Avenue St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5 SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 15048, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found quilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Assistant Engineer

alas M. Mendoza, P.E. Mgr. of Industrial Prétreatment

1020548801

Page No.:

2

Effective Date:

September 01, 2020

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

001

SAMPLING POINT LOCATION:

MH in driveway W of loading dock, 50' N of Vista, near SW corner of

main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 65,256

WASTEWATER SOURCE AND CATEGORY: Hospital Waste (including lab waste) + Boiler Blowdown + Kitchen Waste + Non-Contact Cooling Water (HVAC) + Sanitary + Storm Water

		Limit	Sampling V
Parameter	Limit	Type **	Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Dally Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Inst ant	Once/3 mo
Total Suspended Solids [mg/L]		Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.84	4 Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per guarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

Permit No.: Page No.:

Effective Date:

1020548801

September 01, 2020

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION: MH on Vis

MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 38,254

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

***************************************		/ ************************************	
Parameter	1/4.	Limit	Sampling
		Type **	Frequency
gent a region of the second of	(
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Dally Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenois [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section JA 2 of the permit conditions.
- Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

Permit No.: Page No.:

Effective Date:

1020548801

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September 01, 2020

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION:

MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 5,626

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

		,	
		Limit	Sampli ng
Parameter	,Limit*	Type **	Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenois [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo
• •			

- * Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

1020548801 Page No.:

Effective Date:

September 01, 2020

DISCHARGE LIMITATIONS

004

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 302

WASTEWATER SOURCE AND CATEGORY: Non-Contact Cooling Water + Storm Water

Parameter	⊭mit *	Limit Type **	Sampli ng Frequency
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD]		Daily Avg Daily Avg Daily Avg	Once/year Once/year
Temperature [Deg C] Total Suspended Solids [mg/L] pH [SU] pH [SU]	60 ***** 11.5 5.5	Instant Daily Avg Instant Instant	Once/year Once/year Once/year Once/year

- Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section Il of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- See Section I.A.2 of the permit conditions.
- Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- See Section I.A. 11 of the permit conditions.

1020548801

Page No.: Effective Date:

September 01, 2020

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

005

SAMPLING POINT LOCATION:

MH 93' S, 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 3,150

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

	~~~~			
			Limit	Sampli <b>ng</b>
Parameter		Limit*	Type **	Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	`	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]		****	Daily Avg	Once/3 mo
Flow [GPD]		***	Dally Avg	***
Oil and Grease (Total) [mg/L]		200`\	Instant	Once/3 mo
Temperature [Deg C]		60 🔪	Instant	Once/3 mo
Total Phenois [mg/L]		21	Instant	Once/3 mo
Total Suspended Solids [mg/L]		****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]		5.844	Instant	Once/year
pH [SU]		11.5	Instant	Once/3 mo
pH (SU)		5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

Permit No.: 1020548801
Page No.: 7

Effective Date: September 01, 2020

#### PERMIT CONDITIONS

#### SECTION I - GENERAL CONDITIONS:

#### A. MONITORING AND REPORTING REQUIREMENTS:

- 1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.
  - The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade)

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A DAILY MAX limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A MONTHLY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A 4-DAY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

- 3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:
  - a. Temperature, pH and chlorine residual measurements, when required, shall be made on-site at the points of discharge and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
  - b. For oil and grease, total phenois, cyanide, sulfide and volatile organics, when required, samples shall be Grab Samples.
  - c. For all other **pollu**tants, samples shall be **COMPOSITE SAMPLES** made up by combining a **minimum** of four individual grab samples within a 24-hour period. The individual grabs must be adequately **flow or** time proportioned to ensure a composite sample that is representative of that day's discharge.

Permit No.: 1020548801
Page No.: 8
Effective Date: September 01, 2020

- 4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.
  - a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471
  - b. For all other discharges the applicable toxic organics are all of those, from the **list in 40** CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the **self-m**onitoring report, the analytical value obtained for each toxic organic analyzed.

- 5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.
- 6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.
- 7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 15048. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.
- 8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.
- 9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:
  - a. All facility and sample description information required on the District's reporting form.
  - b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
  - c. Daily flows, with dates, for all measurements or estimates made within the quarter.
  - d. Any certification statements required pursuant to the Special Conditions in Section II.
  - Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X. Section Three of District Ordinance 15048. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 28

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. The <u>first report</u> under this permit is due by <u>October 28, 2020</u>. For non-quarterly self-monitoring requirements, the permit year commences on <u>July 1</u>.

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

Effective Date: September 01, 2020

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

#### B. CHANGE IN DISCHARGE:

- 1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.
- 2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.
  - As defined in Article II of District Ordinance 15048, significant new or increased discharge means:
    - Any discharge from a new process or facility or a new source.
    - b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
    - c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
    - d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 15048.
    - e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
    - f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 15048.
    - g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

# C. PROBLEM DISCHARGE.

- Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.
- 2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

Effective Date: September 01, 2020

continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

#### D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless;

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage,
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

#### E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

#### F. PERMIT TERMINATION OR MODIFICATION:

- 1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.
- 2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 15048, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

#### G. PERMIT RENEWAL.

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

## H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 15048 until the District issues a new permit or denies the application.

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Effective Date: September 01, 2020

#### I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

#### J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

#### K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 15048.

#### L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 15048.

#### M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District Division of Environmental Compliance 10 East Grand Avenue St. Louis, Missouri 63147-2913

- 2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.
- 3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

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Effective Date:

#### **SECTION II- SPECIAL CONDITIONS:**

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

#### A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

#### A.1. **Grab Sampling Authorized**

The permittee is authorized to perform self-monitoring at sampling points 004 & 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly selfmonitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

#### No Monitoring When Influenced by Storm Runoff A.2.

Sampling points 001, 002, 003, 004, and 005, may, at times, convey storm water in addition to wastewater regulated by this permit. The self-monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

#### B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

#### B.1. Certification Requirement for Sampling Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

#### Radioactive Discharge Reporting Requirements 8.2.

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- For materials subject to licensing by the Nuclear Regulatory Commission: (1)
  - 5 curies Hvdrogen-3
  - 1 curie Carbon-14
  - 1 curie for all other radioactive materials combined
- For all other materials: (2)
  - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 15048.

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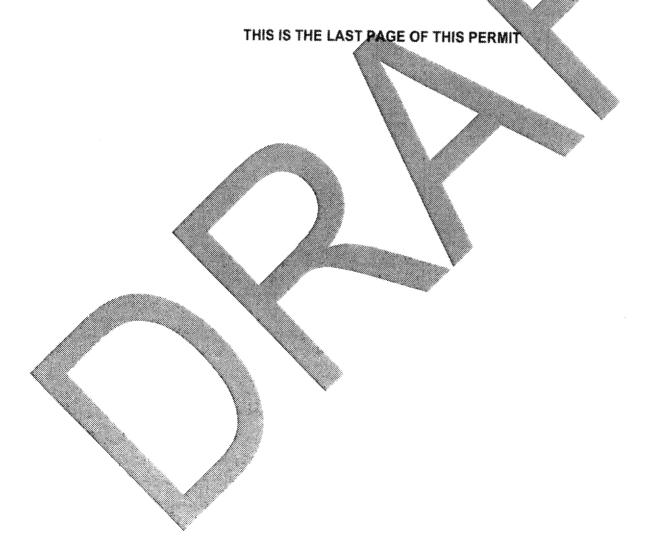
Effective Date: September 01, 2020

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

# C. SPECIAL BILLING REPORTING REQUIREMENTS

# C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on SIXTY-EIGHT (68) percent of the used water (on an annual basis) being discharged to the District from account numbers 1122333 & 1123327. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.



# METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL WASTEWATER DISCHARGE PERMIT

## PERMIT FACT SHEET

Check one:	1	1 4 mm 1 m m m m m			
FIRST TIME PERMIT Prepared by: C. Reidt  RENEWAL Reviewed by: DMM	Date: 8/				
PERMIT NO: <u>1020548801</u>					
COMPANY NAME: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL	2		***********		
PREMISE ADDRESS: 3635 & 3655 Vista Avenue, Saint Louis, MO 63110					
RELATED ACCOUNT NUMBERS: 1020548701, 1045347701, 1055486900					
TYPE OF OPERATION: Hospital & psychiatric care					
TOTAL NUMBER OF SAMPLING POINTS: 5 or NO SAMPLING POINT					
NUMBER OF: ORDINANCE 5 CATEGORICAL 0 COMBINED 0					
CATEGORICAL INDUSTRY? YES ☐ NO ☐					
If Yes, 40 CFR Subpart	PSES 🗌	PSNS [			
40 CFR Subpart	PSES 🗌	PSNS [			
EXTRA STRENGTH SURCHARGE? YES ☐ NO ☒ If Yes, BOD CO	D	TSS			
RETURN FACTOR? YES NO If Yes, Acct #(s) 112233	<u>3.1123327</u>	RF <u>0.</u>	<u>68</u>		
SPECIAL CONDITIONS REQUIRED? YES ⊠ NO □					
All SMR start dates begin at start of calendar quarter:					
SMR General Cert. B attached to first permit SP (001) at reporting frequency of	f once/3m/	o? Y ⊠	N□		
SUPPORTING DOCUMENTS ATTACHED "Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Sheet:	YES ⊠	NO	N/A		
Pollutant & Limitations Documentation Sheets:					
Permit Preparation Checklist:	$\boxtimes$				
Production-based Standards Calc. Sheets (for Sampling Points)			$\boxtimes$		
Mass-based Standards Calc. Sheets (for Sampling Points)			$\boxtimes$		
Equivalent Concentration Limits Sheets (for Sampling Points)			$\boxtimes$		
Most Strict Limits Sheets (for Sampling Points)			$\boxtimes$		
Combined Wastestream Formula Sheets (for Sampling Points)			$\boxtimes$		
Text of any Customized Special Conditions: If Yes, for which SCs:			$\boxtimes$		
Other:					
COMMENTS (Include notations of any significant changes from last permit):  Monitoring for Ag removed from SP001 & 002; facility is now digital, and results from the last 5 years show Ag as non-detect, or at very low levels (results attached). SC D.3 (Sampling/Reporting Requirement for Ordinance Total Phenols) has been removed.					

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# SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS

Special Condition:	# <u>E.18</u>	#	#	#	#	#	#	#
List any related SMR certifications:	#	#	#	#	#	#	#	#
SMR certification frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List any related General Reports:	# <u>Rad.</u> <u>Discharge</u> <u>Report</u>	#	#	#	#	#	#	#
General Report frequency:	once 3 mo	[none]						
Are all the <u>SMR certifications</u> listed above associated with first permit sample point ( <u>001</u> )? YES ☐ NO ☐ N/A (No Certs) ⊠								
Check here if there are <u>no</u> non-SP-specific Special Conditions:								

SAMPLING POINT F Wastewater Compon				【TYPE: Ord』 aste (including				e + NCCW (HVA	(C) + Sanitary +	Storm W	/ater	
Flow Rate: 65,256	Units: (			s for Flow Rate:			110001111111111111111111111111111111111				<u></u>	
Pollutants	Basis fo	or inclusion usion of std po		Basis for limi (Ord 15048, CFR_	itation	Mor	nitoring uency	Basis for mor	itoring freq. locuous, low flow, e	tc)	An OK	
GENERAL:	······································							3			••••••••	
FLOW	Standar	d		N/A		once	e 3 mo	Standard for flow	V			
BOD	Standan	d		N/A		once	e 3 mo	Standard for vol	ume			J
COD	Standan	d		N/A		once	e 3 mo	Standard for vol	ume			J
O&G	Standar	d.		Ordinance 1504	48	once	e 3 mo	Standard for vol	ume			
рН	Standar	1		Ordinance 150	48	once	e 3 mo	Standard for vol	ume			
Temp	Standar	d		Ordinance 1504	48	once	e 3 mo	Standard for vol	ume			
TSS	Standar	d		N/A		once	e 3 mo	Standard for vol	ume			Ī
Ord. TTO	Standar	d		Ordinance 1504	48	once	e/year	Standard for vol	ume, TTO's			
Total Phenols	Standan	d for hospitals		Ordinance 1504	48	once	e 3 mo	Standard for vol	ume			Ī
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PRIORITY/CATEGO	RICAL:					······································		<del></del>				
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Special Cor	ndition:	# <u>D.10</u>	***************************************	**************************************	# 1000000000	ааааааааа	#	#	## MONOCOCCOCCOCCOCCOCC	#	энничного	
List related SMF SMR cert freq		# [none]	#	# [none]	# [no	nel	# [none]	# [none]	# [none]	# [noi	nel	
		deconstruction of	Annonnonnonnon h	disconnection.	-		Announcement	***************************************	Annonne			
List related Genera General Rpt freq		# [none]	# <u>[none]</u>	# <u>[none]</u>	# <u></u> [ <u>no</u>	<u>ine]</u>	# <u>[none]</u>	# [none]	# <u>[none]</u>	# [no	<u>nel</u>	
Is this an Ord or Comb	SP w/moi	n for TTO <u>and</u> th	nat has no TOs	s on site? YES [	] NO [	] If Y∈	es, is SMR <u>Ge</u>	<u>en Cert. A</u> attache	d at once/3 mo fre	eq.? YES		
Any significant chang detect, or occasional				itoring for Ag re	moved; fa	acility I	has gone dic	nital. Results fron	n last 5 years sl	<u>now Ag as</u>	<u>s non</u>	<u>!-</u>

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TYPE: Ord ☐ Cat ☐ Comb ☐ SAMPLING POINT REFERENCE NUMBER: 002 Wastewater Components: Hospital Waste + Sanitary + Storm Water Flow Rate: 38,254 Units: GPD Basis for Flow Rate: 3/1/2020 Basis for inclusion **Pollutants** Basis for limitation Monitoring Basis for monitoring freq. Any (std for vol, etc; innocuous, low flow, etc) (or exclusion of std polls) (Ord 15048, CFR___, etc) frequency OK? GENERAL: FLOW Standard N/A once 3 mo Standard for flow BOD Standard N/A Standard for volume once 3 mo COD Standard N/A once 3 mo Standard for volume O&G Standard Ordinance 15048 once 3 mo Standard for volume Hq Standard Ordinance 15048 once 3 mo Standard for volume Ordinance 15048 Standard Standard for volume Temp once 3 mo TSS Standard N/A once 3 mo Standard for volume Ord. TTO Standard Ordinance 15048 Standard for volume, TTO's once/year **Total Phenois** Standard for hospitals Ordinance 15048 once 3 mo Standard for volume **Inonel** PRIORITY/CATEGORICAL: [none] m **Inonel** [none] [none] [none] [none] [none] [none]  $\Box$ [none] [none] Special Condition: # D.10 List related SMR certs: SMR cert frequency: [none] [none] List related General Rots: General Rpt frequency: [none] [none] [none] [none] [none] [none] [none] [none] Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES \( \sqrt{NO} \sqrt{NO} \sqrt{If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES \( \sqrt{T} \) Any significant changes? YES NO Explain: Monitoring for Ag removed; facility has gone digital. Results from last 5 years show Ag as nondetect, or occasionally present at very low levels.

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SAMPLING POINT	REFERENCE NUN	IBER: 003	TYPE: Ord [	⊠ Cat [	] Com	b 🔲					
	onents: <u>Hospital Wa</u>										
Flow Rate: <u>5626</u>	Units: <u>GPD</u>	Bas	is for Flow Rate:	3/1/2020	) IUQ						
Pollutants	Basis for inclusion of s		Basis for lim (Ord 15048, CFR_			itoring uency	Basis for mon	itoring freq. locuous, low flow, et	tc)	Ar Or	
GENERAL:						***************************************	d			- <del></del>	
FLOW	Standard		N/A	•••••	once	:/mo	Standard for flow	/			
BOD	Standard		N/A		once	3 mo	Standard for volu	ıme			J
COD	Standard		N/A	••••••	once	3 mo	Standard for volu	ıme	,		J
O&G	Standard		Ordinance 150	48	once	3 mo	Standard for volu	ume			
рН	Standard		Ordinance 150	48	once	3 mo	Standard for volu	ıme			
Temp	Standard		Ordinance 150	48	once	3 mo	Standard for volu	ume			
TSS	Standard		N/A	***************************************	once	3 mo	Standard for volu	ume			I
Ord. TTO	Standard		Ordinance 150	48	once	/year	Standard for volu	ume, TTO's			
Total Phenois	Standard for hospi	tals	Ordinance 150	48	once	3 mo	Standard for volu	ıme			J
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PRIORITY/CATEG	ORICAL:		······		<del>-</del>	<b></b>	3				
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Special C	ondition: # <u>D.10</u>	2 #	#	#	·····	#	#	#	#	*********	
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SMR cert fro	equency: <u>[none</u>	[none]	[none]	[no	<u>onel</u>	[none]	[none]	[none]	[ <u>no</u> ı	<u>nel</u>	
List related Gene General Rpt fr		# <u>[none]</u>	# <u>[none]</u>	# <u></u>	<u>one]</u>	# [none]	# <u>[none]</u>	# <u>[none]</u>	# <u>[noi</u>	ne]	
Is this an Ord or Con	nb SP w/mon for TTO	and that has no TC	os on site? YES [		☑ If Ye	s, is SMR <u>G</u> e	<u>en Cert. A</u> attached	d at once/3 mo fre	q.? YES		
Any significant cha	nges? YES 🗌 NC	Explain:									
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SAMPLING POINT	REFERE	NCE NUMBE	R: 004	TYPE: Ord ∑	Cat □	Comb						
Wastewater Compo	nents: <u>No</u>	<u>n-Contact Cod</u>										
Flow Rate: 302	Units:	<u>GPD</u>	Basis	s for Flow Rate: 3	3/1/2020 ¹	<u>IUQ</u>						
Pollutants	3	or inclusion usion of std p	olis)	Basis for limit		Moni frequ	toring iencv	Basis for mon		etc)		ny K?
GENERAL:								1				
FLOW	Standar	d		N/A		once	3 mo	Standard for flow	······································		T	
BOD	Standar	d		N/A		once/		Standard for low	volume			J
COD	Standar	d	••••••••••••	N/A		once/	.X	Standard for low	volume	***************************************		J
O&G	Exclude	d; NCCW + sto	rm water only	N/A		[none		N/A; excluded			1	
рН	Standar	d	······································	Ordinance 1504	8	once/		Standard for low	volume	~~~~~	1	
Temp	Standar	d		Ordinance 1504	8	once/	.×	Standard for low	volume			
TSS	Standar	d		N/A		once/	year	Standard for low	volume			I
Ord. TTO	Exclude	d; NCCW + sto	rm water only	N/A		[none	2]	N/A; excluded				
						none	·]					]
						[none	[					J
PRIORITY/CATEGO	ORICAL:							······································				
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Special C	ondition:	# <u>D.10</u>	# <u>E.3</u>	# <u>D.1</u>	# <u>E.</u>	4	#	#	#	#	***********	
List related SM SMR cert fre		# [none]	# [none]	# <u>D</u> once 3 mo	# <u>A</u> once 3	٠ .	# <u>[none]</u>	# <u>[none]</u>	# <u>[none]</u>	# <u>[no</u>	<u>ne]</u>	
List related Gene General Rpt fre		# [none]	# [none]	# [none]	# <u>[nor</u>	ne]	# <u>[none]</u>	# [none]	# [none]	# <u>[no</u>	ne]	
Is this an Ord or Com	b SP w/mo	n for TTO <u>and</u> t	hat has no TO:	s on site? YES	] NO 🛛	If Yes	i, is SMR <u>G</u> e	<u>en Cert. A</u> attached	l at once/3 mo fi	eq.? YES		
Any significant char	nges? YE	s□ no⊠	Explain:									
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<b>SAMPLING POINT</b>	REFERE	NCE NUMBER	R: 005	TYPE: Ord [		] Com	ıb 🔲					
Wastewater Compo	nents: <u>Ho</u>	spital Waste +	Sanitary + St	orm Water		-						
Flow Rate: 3150	Units:	<u>GPD</u>	Basis	for Flow Rate:	3/1/2020	IUQ						
Pollutants	1	or inclusion usion of std po	olls)	Basis for lim (Ord 15048, CFR_			itoring uency	Basis for mon	itoring freq. ocuous, low flow, et	:c)	An OK	
GENERAL:				······			***************************************	d				
FLOW	Standar	d		N/A		once	3 mo	Standard for flow	1			
BOD	Standar	d		N/A		once	3 mo	Standard for volu	ıme			J
COD	Standar	d	••••••	N/A	***************************************	once	3 mo	Standard for volu	ıme			Ţ
O&G	Standar	d		Ordinance 150	48	once	3 mo	Standard for volu	ıme			
рН	Standar	d		Ordinance 150	48	once	3 mo	Standard for volu	ıme			
Temp	Standar	d		Ordinance 150	48	once	3 mo	Standard for volu	ıme			
TSS	Standar	d		N/A		once	3 mo	Standard for volu	ıme			]
Ord. TTO	Standar	d		Ordinance 150	48	once	e/year	Standard for volu	ıme, TTO's			
Total Phenols	Standar	d for hospitals		Ordinance 150	48	once	3 mo	Standard for volu	ıme			]
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PRIORITY/CATEGO	ORICAL:											
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						[non	<u>e]</u>]
Special Co	ondition:	# <u>D.10</u>	# <u>D.1</u>	#	#		#	#	#	#		
List related SM SMR cert fre		# [none]	# <u>D</u> once 3 mo	#	# <u></u> [no	<u>onel</u>	# [none]	#	#	# <u>[noi</u>	ne]	
List related Gener General Rpt fre		#	# [none]	#	# [no	<u>nel</u>	# [none]	# [none]	# [none]	# <u>[no</u>	ne]	
Is this an Ord or Com	o SP w/mo	n for TTO <u>and</u> t	hat has no TOs	on site? YES [] NO [∐ If Ye	s, is SMR <u>G</u> e	<u>en Cert. A</u> attached	d at once/3 mo fre	q.? YES		
Any significant char	iges? YE	s□ no⊠	Explain:									
REV 01/04/2019		Page	7 of 7									

PERMIT PREPARATION CHECKLIST – PART 1 (Fact Sheet Attachment)

Company Name: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL Permit No.: 1020548801

Effective Date: 9/1/2020 Prepared by: C. Reidt Date: 8/17/2020

REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT APPLICATION. ANSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT. Yes ⊠ No □ Are the correct SICs listed? 1. If no, add delete: ___ Is user in surcharge? Yes □ No 🏻 2. If yes, date last certified: If yes, Special Condition F.2 applies. Does user's premise have more than one MSD account? 3. Yes ⊠ No [If yes, were all account numbers correctly listed (including occupant #s)? Yes □ No 🏻 If no, have account numbers been corrected in database before proceeding? Yes No [Does user have a Return Factor (RF) other than 1.00 for any account? 4. Yes ⊠ No □ If yes, list acct no., RF and date last updated: Acct 1122333 Updated 4/2/2001 RF 0.68 Acct 1123327 Updated 1/27/2003 RF 0.68 If yes, Special Condition F.1 applies. Does user discharge water (on-site) from a source not included in the MSD Billing system? Yes □ No ☒ If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply. If yes, Is a flow meter used to record the volume discharged from this other source? Yes 🗌 No 🗍 If yes, SC E.37 and Gen. Rpt. "Calibration of Discharge Flow Meter" apply. If no, SC E.38 applies. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow? 6. Yes ⊠ No 🗌 If no, explain Has user been granted any variances from ordinance limitations? 7. Yes ☐ No 🛛 If yes, Application Date: ___, or approved as part of this permit issuance? Yes 🗍 Approval Date: (Variances cannot last more than 5 years after approval) If yes, Parameter(s) at SP(s) If yes, Special Condition C.4 applies. Have any numerical limitations been applied to user, in addition to those already contained in 8. the ordinance? Yes □ No 🏻 If yes, Parameter(s) at SP(s) Date limit(s) originally applied: ____, or as part of variance above? ____
If yes, are Special Conditions, other than the standard special conditions, required?

If yes, explain under "non-standard special conditions" question below. Yes 🗌 No 🗌 Does user discharge any radioactive materials? 9. Yes ⊠ No □ If yes, Special Condition E.18 & General Report "Radiation Discharge" apply. Does user generate wastes and/or wastewater by genetic engineering research? 10. Yes ☐ No 🖾 If yes, Special Condition B.12 applies. Do all of the user's active connections, to MSD sewers, have identified SPs? 11. Yes ⊠ No 🗀 If no. explain: If no, is documentation sufficient to use Special Condition? Yes No No E.5 ["Sampling Not Required at Connections with NO SP and with SP on parts", E.6 The "Sampling Not Required at Connection with NO SP on it", E.7 The "Sampling Not Required at Connection with SP on only part of it", or E.8 ☐ "Sampling Not Required at Permittee with No SP"? If no, is compliance schedule necessary to obtain documentation? Yes 🗍 No 🦳 If yes, Special Condition G.1 is necessary. Does premise require use of "upstream/downstream" sampling? 12. Yes ☐ No 🖂 If yes, Upstream SP# & Downstream SP# If yes, Special Conditions D.11 and E.9 apply. Are there any inactive connections to MSD sewers? 13. Yes □ No □ If yes, Special Condition E10 applies. Have you verified, in PIMS, the SP location descriptions are complete and adequate? Yes⊠ No [14. 15. Have you verified, in PIMS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ⊠ No 🗌

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16.	Does user have any discharges subject to NPDES permitting regulations?	Yes □ No ⊠
,	If yes, list MSD points & corresponding NPDES points:	100 = 110 = 3
	If yes, Special Condition E.14 applies.	
17.	Do any SPs convey stormwater in addition to regulated wastewater?	Yes ⊠ No □
	If yes, list points: 001, 002, 003, 004, & 005 and note on P&LD sheets.	
	If yes, Special Condition D.10 applies.	
18.	Are any SPs Dry Justified in PIMS?	Yes ☐ No 🛛
	If yes, list points and note on P&LD sheets.	
	If yes, no self-monitoring is required, and Special Condition E.3 applies.	
19.	Are there SPs where user discharges only non-process wastewater?	Yes ⊠ No □
10.	If yes, does no self-monitoring requirement / Special Condition E.3 apply?	Yes ⊠ No □
	If yes, list points 004 and note on P&LD sheets.	102 2 140
20.	Are there SPs with infrequent discharges that require coordination with the user for MSD to	A 1 PO 1 P
20.	collect samples?	Yes ☐ No 🏻
	If yes, list points: and note on P&LD sheets.	100 [140]
anezanezanez	If yes, Special Condition D.14 applies.	- go rann ann rann ann ann rann ann rann ann
21.	Is documentation adequate to allow use of grab samples in lieu of composites at any SPs?	Yes ⊠ No 🗌
	If yes, list points <u>004 & 005</u> and note on P&LD sheets.	
any any any any	If yes, Special Condition D.1 applies.	Secure contractor contractor contractor contractor contractor contractor
22.	Are there SPs with self-monitoring requirements, but at less than a quarterly frequency, for	
	all parameters?	Yes ⊠ No 🗌
	If yes, list points <u>004</u> and note on P&LD sheets.	
985/885/885/885	If yes, Special Condition E.4 applies.	productival conference
23.	Can local limits TTO be removed from monitoring at any ordinance SPs? If yes, list points 004 and explain on P&LD sheets	Yes ⊠ No □
	If yes, list points <u>004</u> and explain on P&LD sheets. If yes, does TTO also need to be removed from MSD's monitoring?	, , , , , , , , , , , , , , , , , , ,
	If yes, discuss with inspector (name:) and explain why it had	Yes ☐ No 🏻
	been monitored by MSD:	
24.	Does user have a history of compliance problems at this or a previous location?	Yes ☐ No 🛛
	If yes, explain problems:	1 00 1
	If yes, is a compliance schedule required?	Yes 🗌 No 🗌
	If yes, Special Condition G.1 applies.	
	Is supporting documentation attached?	Yes□No□
	If yes, are any other special requirements required?	Yes No
anati anata anata anata	Explain:	
25.	Has user chosen to employ continuous monitoring techniques for:	gg e sam e
	pH? If yes, list points SC E.29 & Gen Rpt "Cont-Mon pH Excursions" apply.	Yes □ No 🏻
	Temp? If yes, list points SC E.30 & Gen Rpt "Cont-Mon Temp Excursions" apply.	Yes ☐ No 🖾
	LEL? If yes, list points SC E.31 & Gen Rpt "Cont-Mon LEL Excursions" apply.	Yes □ No 🏻
	If yes for pH or Temp, have corresponding SP limits in PIMS been set to 'Alert Only'	
	and does PIMS Monitoring Special Instructions have notes re. field 'violations'?	Yes 🗌 No 🔲
26.	Does the company perform any processes for which summaries of activities are needed? If yes, Special Condition E.33 & General Report "Process Activity Summary" apply.	Yes ☐ No 🔯
001/001/001/001		31 (80) (80) (80) (80) (80) (80) (80) (80)
27.	Are special billing conditions, other than the standard Special Conditions, needed?	Yes ☐ No 🛛
	If yes, describe:	
	If yes, Special Condition F.4 applies.	
	Does General Report "Discharge Volume for Billing" apply?	Yes 🔲 No 🔲
.007/.007/.007/.007/	Does General Report "Custom Non-Standard" apply?	Yes 🗌 No 🗍
28.	Are any Special Conditions, other than the standard special conditions, required?	Yes ☐ No 🛛
	If yes, explain:	
	Which Special Condition applies?	
	Is supporting documentation attached?	Yes ☐ No ☐
	If no, explain:	
ON ON ON	Does General Report "Custom Non-Standard" apply?	Yes 🗌 No 🔲
29.	Is user a hauled waste industry, discharging its wastewater at the Hauled Waste Station?	Yes ☐ No 🛛
	If yes, have permit title, cover page, & general conditions been modified?	Yes No
30.	If yes, Special Conditions B.9, C.7, D.13, H.1, and H.2 apply. Is user classified as a Categorical Industrial User (CIU)?	ywwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww

List all the Special Conditions from Part 1 that are applicable to this permit.
List those that are specific to a sampling point on that sampling point's fact sheet, too.
List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

General Report	Special Condition #	Sampling Point #
Rad. Discharge Report	E.18	N/A
	D.10	001, 002, 003, 004, & 005
	E.3	004
	D.1	004 & 005
	E.4	004

,		

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Facility Name	Monitoring Location Name	Sample Start
SSM HEALTH ST LOUIS UNIVERSITY		<u></u>
HOSPITAL	1	7/22/2015 11:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	10/21/2015 12:45
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	1/14/2016 12:40
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	3/21/2016 7:39
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	5/5/2016 12:45
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	7/20/2016 12:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	10/26/2016 13:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	1/11/2017 9:07
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	1/19/2017 11:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	4/12/2017 12:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	8/7/2017 10:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	10/30/2017 12:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	11/29/2017 8:43
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	1/18/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	4/19/2018 13:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	4/18/2018 13:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1.	8/28/2018 11:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	8/29/2018 11:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	10/23/2018 13:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	10/24/2018 13:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	1	2/27/2019 12:00

1	2/26/2019 12:00
1	4/17/2019 11:30
1	4/18/2019 11:30
1	7/18/2019 14:00
1	7/19/2019 14:00
1	11/18/2019 11:00
1	11/19/2019 11:00
1	3/3/2020 8:30
1	3/4/2020 9:05
	1 1 1 1

Sample End	Substance	Result	Unit	Sampler Name(s)	Data Source
7/23/2015 11:00	Silver (Total)	< .002	mg/L	430992	SMR
10/22/2015 12:45	Silver (Total)	< .002	mg/L	424483	SMR
1/15/2016 12:40	Silver (Total)	< .002	mg/L	467138	SMR
3/22/2016 7:27	Silver (Total)	0.002	mg/L	465378	Sample
5/6/2016 12:45	Silver (Total)	< .002	mg/L	461190	SMR
7/21/2016 12:00	Silver (Total)	< .002	mg/L	455348	SMR
10/27/2016 13:30	Silver (Total)	< .002	mg/L	449977	SMR
1/11/2017 9:07	Silver (Total)	0.0035	mg/L	489724	Sample
1/20/2017 11:00	Silver (Total)	< .002	mg/L	487830	SMR
4/13/2017 12:30	Silver (Total)	< .002	mg/L	482149	SMR
8/8/2017 10:30	Silver (Total)	< .002	mg/L	476167	SMR
10/31/2017 12:30	Silver (Total)	< .002	mg/L	470924	SMR
11/30/2017 8:31	Silver (Total)	0.0088	mg/L	473246	Sample
1/19/2018 12:30	Silver (Total)	< .002	mg/L	491598	SMR
4/19/2018 13:00	Silver (Total)		mg/L	777978	SMR
4/19/2018 13:00	Silver (Total)	< 0.002	mg/L	777978	SMR
8/29/2018 11:30	Silver (Total)	< 0.002	mg/L	715663	SMR
8/29/2018 11:30	Silver (Total)		mg/L	715663	SMR
10/24/2018 13:00	Silver (Total)	< 0.002	mg/L	715664	SMR
10/24/2018 13:00	Silver (Total)		mg/L	715664	SMR
2/27/2019 12:00	Silver (Total)		mg/L	715665	SMR

Silver (Total)	< 0.002	mg/L	715665	SMR
Silver (Total)	< 0.002	mg/L	715666	SMR
Silver (Total)		mg/L	715666	SMR
Silver (Total)	< 0.002	mg/L	715667	SMR
Silver (Total)		mg/L	715667	SMR
Silver (Total)	< 0.010		715668	SMR
······			715668	SMR
rennancennancennancennancennancennancennancenna	< 0.0050			SMR
Silver (Total)		mg/L	715669	SMR
	Silver (Total) Silver (Total) Silver (Total) Silver (Total) Silver (Total)	Silver (Total) < 0.002 Silver (Total) < 0.010 Silver (Total) < 0.0050 Silver (Total) < 0.0050	Silver (Total) < 0.002 mg/L Silver (Total) < 0.002 mg/L Silver (Total) < 0.002 mg/L Silver (Total) < 0.010 mg/L Silver (Total) < 0.010 mg/L Silver (Total) < 0.0050 mg/L	Silver (Total) < 0.002

Facility Name	Monitoring Location Name	Sample Start
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	7/22/2015 10:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	10/21/2015 12:30
SSM HEALTH ST LOUIS UNIVERSITY		•
HOSPITAL	2	1/14/2016 12:15
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	3/21/2016 7:35
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	5/5/2016 12:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	7/20/2016 11:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	10/26/2016 13:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	1/10/2017 7:21
SSM HEALTH ST LOUIS UNIVERSITY		000000000000000000000000000000000000000
HOSPITAL	2	1/19/2017 12:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	4/12/2017 12:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	8/7/2017 10:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	10/30/2017 12:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	11/29/2017 8:39
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	1/18/2018 12:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	4/18/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	4/19/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	8/28/2018 11:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	8/29/2018 11:00
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	10/23/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	10/24/2018 12:30
SSM HEALTH ST LOUIS UNIVERSITY		
HOSPITAL	2	11/29/2018 7:45

2	2/27/2019 11:30
2	2/26/2019 11:30
2	4/17/2019 12:00
2	4/18/2019 12:00
2	7/18/2019 11:30
2	7/19/2019 11:30
2	7/25/2019 7:44
2	11/18/2019 10:30
2	11/19/2019 10:30
2	3/3/2020 8:15
2	3/4/2020 9:30
	2 2 2 2 2 2 2

Sample End	Substance	Result	Unit	Sampler Name(s)	Data Source
			·		
7/23/2015 10:30	Silver (Total)	< .002	mg/L	430991	SMR
10/22/2015 12:30	Silver (Total)	< .002	mg/L	424481	SMR
1/15/2016 12:15	Silver (Total)	< .002	mg/L	467137	SMR
3/22/2016 7:23	Silver (Total)	0.001	mg/L	465371	Sample
5/6/2016 12:30	Silver (Total)	< .002	mg/L	461191	SMR
7/21/2016 11:30	Silver (Total)	< .002	mg/L	455347	SMR
10/27/2016 13:00	Silver (Total)	< .002	mg/L	449975	SMR
1/11/2017 7:09	Silver (Total)	< .0001	mg/L	489717	Sample
1/20/2017 12:00	Silver (Total)	< .002	mg/L	487829	SMR
4/13/2017 12:00	Silver (Total)	< .002	mg/L	482145	SMR
8/8/2017 10:00	Silver (Total)	< .002	mg/L	476166	SMR
10/31/2017 12:00	Silver (Total)	< .002	mg/L	470923	SMR
11/30/2017 8:27	Silver (Total)	< .0001	mg/L	473240	Sample
1/19/2018 12:00	Silver (Total)	< .002	mg/L	491597	SMR
4/19/2018 12:30	Silver (Total)	< 0.002	mg/L	777979	SMR
4/19/2018 12:30	Silver (Total)		mg/L	777979	SMR
8/29/2018 11:00	Silver (Total)	< 0.02	mg/L	715748	SMR
8/29/2018 11:00	Silver (Total)		mg/L	715748	SMR
10/24/2018 12:30	Silver (Total)	< 0.002	mg/L	715749	SMR
10/24/2018 12:30	Silver (Total)		mg/L	715749	SMR
11/30/2018 7:33	Silver (Total)	0.001	mg/L	765807	Sample.

2/27/2019 11:30	Silver (Total)		mg/L	715750	SMR
2/27/2019 11:30	Silver (Total)	< 0.002	mg/L	715750	SMR
4/18/2019 12:00	Silver (Total)	< 0.002	mg/L	715751	SMR
4/18/2019 12:00	Silver (Total)		mg/L	715751	SMR
7/19/2019 11:30	Silver (Total)	< 0.002	mg/L	715752	SMR
7/19/2019 11:30	Silver (Total)		mg/L	715752	SMR
7/26/2019 7:32	Silver (Total)	< .0001	mg/L	784047	Sample
11/19/2019 10:30	Silver (Total)	< 0.010	mg/L	715753	SMR
11/19/2019 10:30	Silver (Total)		mg/L	715753	SMR
3/4/2020 8:15	Silver (Total)	< 0.0050	mg/L	715754	SMR
3/4/2020 9:30	Silver (Total)		mg/L	715754	SMR



Metropolitan St. Louis Sewer District

Division of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913 Phone: 314 768 6200 www.stlmsd.com

September 23, 2015

Robert Hicks
Director of Building Services
SSM HEALTH ST. LOUIS UNIVERSITY HOSPITAL
3635 Vista Avenue
P.O. Box 15250
St. Louis, MO 63110-0250

Re: Discharge Permit No:

1020548800 - 3

For premise at:

3635 & 3655 Vista Avenue

St. Louis, MO 63110

Dear Mr. Hicks:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- New name, new ownership
- Wastewater discharge volumes have been updated

The previous permit, effective January 1, 2012, is voided as of the effective date of the enclosed permit.

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the permit.

Please be aware that an annual permit fee will be added to your monthly sewer bill, or you will receive a separate bill, to cover administrative costs associated with the permit, as provided for under MSD ordinance 12413. The fee is normally added to the last bill of each calendar year, or shortly thereafter.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit,

Self-monitoring Report Form, Self-monitoring Report Instructions

cc: Doug Mendoza

METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548800 - 3

EFFECTIVE DATE:

September 01, 2015

EXPIRATION DATE:

August 31, 2020

ISSUED TO: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

3635 & 3655 Vista Ave. St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5 SAMPLING PT. REF NUMBER(S): 002, 003, 004, 001, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer

Assistant Engineer

glas M. Mendoza/ P/E. Mar. of Industrial Pretreatment

1020548800 - 3

Page No.: Effective Date:

2 September 01, 2015

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION:

MH in driveway W of loading dock, 50' N of Vista, near SW corner of

main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 69,840

WASTEWATER SOURCE AND CATEGORY: Boiler Blowdown + Hospital Waste (including x-ray waste, lab waste) + Kitchen Waste + Non-Contact Cooling Water (HVAC) + Sanitary + Storm Water

Parameter	Limit *	Limit	Sampling
rarameter	LIIIIL	Type **	Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenois [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section If of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V. Section 2.B of the Ordinance.

See Section I.A.2 of the permit conditions.

Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

Page No.: Effective Date:

1020548800 - 3

3

September 01, 2015

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION:

MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 28,170

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
oH [SU]	11.5	Instant	Once/3 mo
ьн [su]	5.5	Instant	Once/3 mo

Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

^{**} See Section I.A.2 of the permit conditions.

^{***} Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

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DISCHARGE LIMITATIONS

003

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 3,434

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	**	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	- 5.844	Instant	Onçe/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

^{**} See Section I.A.2 of the permit conditions.

^{***} Report a measured or estimated average daily flow for at least one representative operating day per guarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

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DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION:

6" T-vent under W Pavilion parking lot, 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 281

WASTEWATER SOURCE AND CATEGORY: Non-Contact Cooling Water + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
[emperature [Deg C]	60	Instant	Once/year
otal Suspended Solids [mg/L]	***	Daily Avg	Once/year
oh (SU)	11.5	Instant	Once/year
ьн įsuj	5.5	Instant	Once/year

Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

^{**} See Section I.A.2 of the permit conditions.

^{***} Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

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DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

005

SAMPLING POINT LOCATION:

MH 93 'S, 9'W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 2,915

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

See Section I.A.2 of the permit conditions.

Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

See Section I.A.11 of the permit conditions.

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PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

- From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the 1. identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.
 - 2. The limitation types, which may be specified in this permit, are defined as follows:

An INSTANT limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A DAILY AVG limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A DAILY MAX limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A MONTHLY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A 4-DAY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

- Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:
 - a. Temperature, pH and chlorine residual measurements, when required, shall be made on-site at the points of discharge and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
 - For oil and grease, total phenois, cyanide, sulfide and volatile organics, when required, samples shall be Grab Samples.
 - For all other pollutants, samples shall be COMPOSITE SAMPLES made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

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4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

- a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.
- b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

- 5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.
- 6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.
- 7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.
- 8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.
- 9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:
 - a. All facility and sample description information required on the District's reporting form.
 - b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
 - c. Daily flows, with dates, for all measurements or estimates made within the quarter.
 - d. Any certification statements required pursuant to the Special Conditions in Section II.
 - e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 28

April 1 through June 30

July 28

October 1 through December 31

The report must be postmarked no later than:

April 28

October 28

January 28

A report must be submitted for <u>each</u> calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. The <u>first report</u> under this permit is due by <u>October 28, 2015</u>. For non-quarterly self-monitoring requirements, the permit year commences on <u>January 1</u>.

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

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11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

- 1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.
- 2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.
 - 3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:
 - a. Any discharge from a new process or facility or a new source.
 - b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
 - e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
 - g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

- 1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.
- 2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

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continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

- 1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.
- 2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

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September 01, 2015

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District Division of Environmental Compliance 10 East Grand Avenue St. Louis, Missouri 63147-2913

- 2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.
- 3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

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SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points 004 and 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

A.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005 may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

A.3. Sampling / Reporting Requirement for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol

4,6-dinitro-2-methylphenol

pentachlorophenol

2-chlorophenol

2.4-dinitrophenol

phenol

2,4-dichlorophenol

2-nitrophenol

2,4,6-trichlorophenol

2,4-dimethylphenol 4-nitrophenol

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

B.1. Certification Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

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B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

(1) For materials subject to licensing by the Nuclear Regulatory Commission:

5 curies Hydrogen-3

1 curie Carbon-14

1 curie for all other radioactive materials combined

(2) For all other materials:

1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

C. SPECIAL BILLING REPORTING REQUIREMENTS

C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on sixty-eight (68) percent of the used water (on an annual basis) being discharged to the District from both account numbers 00208066 and 00208067. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORM	IATION							
Company Name: SSM HEALTH ST L	ouis ui	VIVE	RSITY HOSE	IATI				
Permit No: 1020548800 - 3	Permit No: 1020548800 - 3 Effective Date: Sep 01, 2015 Expiration Date: Aug 31, 20					020		
Premise Address: 3635 & 3655 Vista	Ave. St.	Louis	s, MO 63110					
Monitoring Period: □(JAN-MAR)		□(A	PR-JUNE)		□(JULY-SE	EPT)	□(O	CT-DEC)
Samples Collected By:				***************************************		000000 -00 000000	***************************************	
Analyses Performed By:								
PART II: ANALYTICAL RESULT	S OF SE	<u>LF</u>	MONITORING	3	50 St	4,222		
MSD SAMPLE POINT REFERENCE NUMBERS	⇒							
DATES ON WHICH SAMPLES WERE COLLECTED	⇒							
TIMES AT WHICH SAMPLES WERE COLLECTED	⇔							
PARAMETER	LIMIT	RE			(G, C, M OR E) A , M=measured flow, I			UNITS
FLOW								
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You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: **SPECIAL CERTIFICATION STATEMENTS**

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS**.

A	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample points, you are required to make the following certification for each report in which such authorized grab samples occur:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.

PA	ART IV:	GENERAL CERTIFICATION STATEMENTS
В	DISCHAR	GE MONITORING REPORT CERTIFICATION
	All permitte	es must sign and complete the information below:
	a system des person or pe is, to the bes	er penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with signed to assure that qualified personnel properly gather and evaluate the information submitted. Based_on my inquiry of the ersons who manage the system, or those persons directly responsible for gathering the information, the information submitted of or my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false including the possibility of fine and imprisonment for knowing violations.
	Print or type	name of signing official:
	Title:	Telephone:
	Signature:	Date:



Metropolitan St. Louis Sewer District

Division of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913

Phone: 314.768.6200 www.stlmsd.com

August 20, 2015

Rodger Glaus, CHFM Administrative Director - ESH SSM HEALTH ST. LOUIS UNIVERSITY HOSPITAL 1015 Corporate Square, Suite 110 St. Louis, MO 63132

Re: Discharge Permit No: 1020548800 - 2.1

For premise at:

3635 & 3655 Vista Ave., St. Louis, MO 63110

Dear Mr. Glaus:

The Metropolitan St. Louis Sewer District has completed its review of your application for renewal of the Industrial Wastewater Discharge Permit for the above premise. The current permit expires on August 31, 2015.

Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the draft permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- New name, new ownership
- Wastewater discharge volumes have been updated

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the draft permit, and we will proceed to issue the final permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer **Assistant Engineer**

Enclosures: Industrial Wastewater Discharge Permit, Self-monitoring Report Form

cc: Doug Mendoza

METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548800 - 3

EFFECTIVE DATE:

mber 01, 2015

EXPIRATION DATE:

ISSUED TO: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL

3635 & 3655 Vista Ave. St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS SAMPLING PT. REF NUMBER(S): 002, 003, 004, 001, 101

In accordance with the provisions of the Federal Pretreatment (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolian St. Louis Sewer Distress anitary or combined sewer system. All discharges so authorized similar limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit stall condition and ordinance violation. If formal enforcement action is required to gain compliance the pencility who is found guilty of a violation shall be subject to fine or imprisonment, for each violation. Each day in which any such violation shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation comply with all their applicable correctment regulations, standards, or requirement, on with a standard laws, including any such regulation, standard, legal requirement, on with a may a some a just word line, the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any alijārda tilarge.

METROPOLITAN OUIS SEWER DISTRICT

Scott M. Rehmer Assistant Engineer

Douglas M. Mendoza, P.E. Mgr. of Industrial Pretreatment

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Effective Date:

September 01, 2015

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

MH in driveway W of loading dock, 50' N of Vista near SW corner of

main hospital bldg

AVERAGE WASTEWATER FLOW (GPD): 69,840

WASTEWATER SOURCE AND CATEGORY: Boiler Blowdown + Hospital Waste (including x-ray waste) ab waste) + Kitchen Waste + Non-Contact Cooling Water (HVAC) + Sanitally & Storm Water

			4
		Limit	Sampling
Parameter	<u> Digitalian</u>		Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	ally Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	aily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instante	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Vo	Once/3 mo
Temperature [Deg C]	_	Instant 💨	Once/3 mo
Total Phenois [mg/L]		Instant *	Once/3 mo
Total Suspended Solids [mg/L]		Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are comed on MSD Ordinates 12559 and applicable federal categorical standards. See Section II of the penalty and it is not considered to the published limits made pursuant to Article V, Section 3 B of the Ordinates
- ** See Section I.A.2 ** mit conditions.
- *** Report a measured or exampled average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
 - See Section I.A. 11 of the permit conditions.

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Effective Date:

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September 01, 2015

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION:

MH on Vista, 15' S of sidewalk, 36' E of island Sof main hospital building

AVERAGE WASTEWATER FLOW (GPD): 28,170

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

			V ***
		Limit	Sampling 🔾 🦠
Parameter	Amit *	Type **	Frequency 🔪
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD] Oil and Grease (Total) [mg/L] Silver (Total) [mg/L] Temperature [Deg C] Total Phenols [mg/L] Total Suspended Solids [mg/L] Total Toxic Organics [mg/L] pH [SU] pH [SU]	200 0.5 60 21 -	Detally long the Avg the Avg the Avg the Stant Parity Avg Instant Instant Daily Avg Instant Instant Instant Instant	Once/3 mo

- Limits are based of MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for experimentation of any adjustments to the published limits made pursuant to Article V. So on 2.B of the Ordinance.
- ** See Section 1. Of the permit conditions
- Report a measured of a limated average daily flow for at least one representative operating day per quantum life additional view measurements or estimates are made, all must be reported.
 - See Section 1 A 1 of the permit conditions.

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Effective Date:

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September 01, 2015

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 3,434

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + Storm Water

	\$ -360.7(1) collect	300	
		Limit	Sampling 🔪
Parameter		Type **	Frequency 🔌
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD]	***	Daily vg Fally Avg Fally Avg	Once/3 mo Once/3 mo
Oil and Grease (Total) [mg/L] Temperature [Deg C] Total Phenols [mg/L]	200 60 21	Instant Instant	Once/3 mo Once/3 mo Once/3 mo
Total Trichols [mg/L] Total Suspended Solids [mg/L] Total Toxic Organics [mg/L] pH [SU] pH [SU]	3.8 10.5 3.5	Daily Vg 14 Instant Instant Instant	Once/3 mo Once/year Once/3 mo Once/3 mo

- Limits are based on MSD Ordinance 12559 and localicable federal categorical standards. See Section Il of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinates.
- See Section 12 of the permit conditions
- Report a measure for estimated average daily iterator at least one representative operating day per quarter. If additional illumineasurements or estimates are made, all must be reported.
- nit conditions.

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September 01, 2015

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION:

6" T-vent under W Pavilion parking lot, 10' N, 18 E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 281

WASTEWATER SOURCE AND CATEGORY: Non-Contact Cooling Water Storm Water

Parameter	Limit * Type ***	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD]	Delily avg	Once/year Once/year
Temperature [Deg C] Total Suspended Solids [mg/L] pH [SU]	60 Instant **** Jaji Avg 11.5 Instant	Once/year Once/year Once/year
pH [SU]	5.5 Instant	Once/year

- Limits are based on MSD Ordinance 12559 the applicable tederal cite orical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.8 of the Ordinance.
- ** See Section I,A 2 of the permit conditions.
- Report a resistance of estimated overage daily flow of at least one representative operating day per quarter. It is difficult flow meaning ments or estimates are made, all must be reported.



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Effective Date:

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September 01, 2015

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION:

MH 93 'S, 9'W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 2,915

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

			40,442,534,72
	A 37	Limit	Sampling
Parameter	Asignit *	Type **	Frequency 🔻
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD]	***	Du vg Avg aily Avg	Once/3 mo Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Vostant	Once/3 mo
Total Phenols [mg/L]	21	Instants,	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	√ 56844	Instant 🐫 🔑 💄	Once/year
pH [SU]		Instant	Once/3 mo
pH [SU]	5.5		Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit carellions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinarice.
- See Section 182 of the permit condition
- Report a measure of the limited average daily loveror at least one representative operating day per quarter. If additional in an easurements or estimates are made, all must be reported.
- mit conditions.

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PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

- 1. From the effective date of this permit, the permittee shall sample and analyze in discharge at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation upes and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.
 - 2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration of mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the maximum and maximum allowable instantaneous pH values in standard units. For the instantaneous temperature in degrees Celsius (a library) and the maximum allowable instantaneous temperature in degrees Celsius (a library).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A DAILY MAX limitation is the maximum allowable containing or mass of the collutant in any sample collected within a 24-hour period.

A MONTHLY AVG limitation is the maximum allowable average consequences for mass of the pollutant determined by calculating the arithmetic average of concentrations or masses found in all daily samples collected within a calendar month.

A 4-DAY AVG limitation is the maximum allowable verage concentration or mass of the pollutant determined by calculating the arithmetic verage of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample sany sample collected within 24-hour period.

- 3. Unless specified an install Section II of these conditions all samples, collected to satisfy the monitoring and resolution solutionements of the confined solution and resolution solutions.
 - the points of discharge and those measurements reported as grab sample results except, if continuous monitoring is analyzed for pk and/or temperature, reporting shall be as per paragraph A.7 below.
 - b. For oil and grease, total phenois, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**
 - c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

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When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

- For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 474
- For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

- Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.
- All sampling and analyses performed to satisfy the monitoring and reporting requirements of this perqui shall be performed in accordance with the techniques prescribed in 9 CFR 136 and are independents thereto unless other techniques are prescribed, within this permit, for specific parameters.
- 7. If the permittee employs continuous monitoring techniques for a lambda and lambda and lambda and sampling point identified in this permit, unintentional and temporary expusions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Trainance 12559. The permittee shall include, with each self-monitoring report, a supplied finitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/orlower exclusive limit.
- If the permittee monitors any of the listed politicants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports
- A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar qualities. Each report shall include:

 a. All facility and sample description information equired on the District's reporting form.

 b. Analysis I results, with date and times, for all arrayzed samples collected within the quarter.

 - Daily itows, with dates, for all measurements or entimates made within the quarter. C.

d. Any ceditication statements required on the Special Conditions in Section II.

e. Any other interpretation ments required on the Special Conditions in Section II.

Each self-monitoring report shallow certified and signed by an individual authorized in accordance with the provisions of Aricle X, Section true of District Ordinance 12559. The reports shall be submitted to the District as soon as possible and all required damage available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

The report must be postmarked no later than:

January 1 through March 1 April 28 April 1 through June 30 July 28 July 1 through September 30 October 28 October 1 through December 31 January 28

Areport must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter, the first report under this permit is due by October 28, 2015. For nonquarterly self-monitoring requirements, the permit year commences on January 1.

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If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the teams of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-suranth surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra strength surce may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for SS, If the permittee is currently subject to extra-strength surcharge, the BOD, COD and solve salves used for billing as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

- The permittee shall not significantly increase the average daily solime was rate of discharge or add any significant new pollutants or significantly increase the discharge of existing and also set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.
- The permittee shall notify the District's Division of Environmental Compliance if any proposed significant new or increased discharge. The permittee shall neeke the notine work t least ten (10) business days prior to the date of the planned increase or addition.
 - As defined in Article II of District Ordinance 12509 significant new or increased discharge means: 3.

 - Any discharge from a reviorocess or facility of thew source.

 Any increase in volume of the of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee de la charge.
 - Any audition of a hazardous with subject to, but not previously reported under the reporting requirements in Ariale VIII Section Nine of District Ordinance 12559.
 - Any increase of an existing regulated pollutant when the new long term average daily mass desirance of that political will exceed the previous long term average by 20% or more.
 - dition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutaritmay cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559
 - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

PROBLEM DISCHARGE

Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge the Districts system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

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2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any charges at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment addition except then necessary to perform essential maintenance and then only if the bypass will not result in a violence of a policable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injuries severe property damage;
- b. There are no feasible alternatives to trib avoass; and
- c. In the event of an anticipated to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days not as to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this pelmil
- b. A misropesentation or failule to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION

- 1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.
- 2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was pased pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon vehication of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained permit.

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H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is **sold** or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicates State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's conditions related to such discharges. Any dily authorized representative of the District, upon presentation of process credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate that are obtained after execution of the District representative while the work is being performed and shall assure that are obtained after trules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all poords, books, documents, memoranda, reports, sample analysis results, correspondence and interpretable by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ON NANCE:

Unless the context six diffically indicate out to the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTEGATION AND REPORTING:

All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

- 2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768 6260.
- 3. During formal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

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SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the **General** Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the **standard** permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points 004 and 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

A.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005 may, at times, convey storm valer in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A. For this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

A.3. Sampling / Reporting Requirement for Ordinate Potential Phenols

Analysis for Total Phenois is to be performed using 2A Method 62 sold result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds.

4-chloro-3-methylphenol 4-6-dinitro-2-methylphenol pentachlorophenol

2-chlorophenol phenol phenol phenol 2,4-dichlorophenol 2,4-diritrophenol 2,4-6-trichlorophenol

2,4-dichlorophenol 2,4,6-trichloroph 2,4-dimethylphenol 2,4,6-trichloroph

As an option, prior to performing the Method 325 analysis, an initial creening may be performed using EPA Method 420.1. If this option is thosen, two senances and the collected, one preserved for the method 420.1 analysis and one unpreserved for a negled 625 analysis area. Sarry. If the screening produces a result which is less than the permit limitation or total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need control performed. If Method 420.1 produces a result which is greater than the permit limitation are unpreserved sample in at be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required can begin within the 7 day holding time of the unpreserved sample.

B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

B.1. Certification Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

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B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

(1) For materials subject to licensing by the Nuclear Regulatory Commission 5 curies Hydrogen-3

1 curie Carbon-14

1 curie for all other radioactive materials combined

(2) For all other materials:

1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with a diological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastew ter system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be rediffied at any time should the District determine that permittee's discharge of radioactive materials, either all the prohibition with other user's discharges of radioactive materials, causes interference as defined in Method of the prohibition of the prohibi

The permittee shall include with each quarterly self-monitoring report, on forms upplied by the District, a radioactive materials discharge report. The report shall specify in stivity discharged to the sover system by radionuclide during the reporting period. The permittee shall also serving sampliance with state and inderal regulations for disposal of radioactive material by release into sanitar sewage.

C. SPECIAL BILLING REPORTING REQUIREMENTS

C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wasiewater User Charge Ordinances the permittee has been granted a reduction in billing for used water which does not enter the District's system. The semittee is currently billed for sewer service charges based on sixty-eight (62) percent of the used water (on an annual asis) being discharged to the District from both account numbers 00, 40,66 and 0020806. The permittee shall notify the District's Division of Environmental Compliance within tension business day to be compliant aware of any changes in operations which will change the percentage of used water also harged to the District:





METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFOR	MATION			ر. م	<u>A</u>
Company Name: SSM HEALTH ST	LOUIS U	NIVERSITY HOSE	PITAL		
Permit No: 1020548800 - 3				ation Øate :	Aug 31, 2020
Premise Address: 3635 & 3655 Vista			•		
Monitoring Period: □(JAN-MAR	?)	□(APR-JUNE)	□(JŲLY	-SEPT)	E(OCT-DEC)
Samples Collected By:				,	
Analyses Performed By:			144		V.
PART II: ANALYTICAL RESUL	TS OF S	ELF MONITORING	GAL.		
MSD SAMPLE POINT REFERENCE NUMBERS	⇔	1			
DATES ON WHICH SAMPLES WERE COLLECTED	⇔			77	
TIMES AT WHICH SAMPLES WERE COLLECTED	⇨				State Fact Consult
PARAMETER	LIMIT	RECORD SAMPLE T	YPES (G, R)	E) AND RESULT	
FLOW	1				
-	-			-	-
		1			
42	7				
	_				
	À.				_
				-	-

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS**.

For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required certification for each report in which monitoring is waived: I certify, since the last discharge monitoring report, there has been no change in the character of the sample point 004.	
I certify, since the last discharge monitoring report, there has been no change in the character of the	e wastes discharged at
Sample point 004.	
D GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE	
For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample promake the following certification for each report in which such authorized grab samples occur:	
I certify the grab sample results in this report accurately represent our average daily discribing at sa	ample points 004 & 005.
PART IV: GENERAL CERTIFICATION STATEMENTS	
B DISCHARGE MONITORING REPORT CERTIFICATION	
All permittees must sign and complete the information show:	
I certify under penalty of Law that this document and all attachments were prepared interior by direction of upervious system designed to assure that qualified personnel properly to the and evaluate the line matter submitted. Bat person or persons who manage the system, or those persons due by responsible or gathered in all compation, the	ision in accordance with ised on my inquiry of the
is, to the best of my knowledge and belief true, accurate, and compate. I may are that there are significant per	he information submitted nalties for submitting false
information, including the possibility of the she imprisonment for knowing the ations. Print or type name of signing philipal:	
Title: Telephone:	
Signature: Date:	

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:			
FIRST TIME PERMIT Prepared by: S. REHMER	Date: 8/		
RENEWAL Reviewed by: 1 144	Date:	7.21.	-15
PERMIT NO: <u>1020548800-3</u> EFFECTIVE DATE: <u>9/1/2015</u> EXPIRA	TION DATE	:: <u>8/31/2</u>	2020
COMPANY NAME: SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL			
PREMISE ADDRESS: <u>3635 - 3655 Vista Ave, 63110</u>			
RELATED ACCOUNT NUMBERS: 41121950-01, 90091536-01			
TYPE OF OPERATION: <u>Hospital & psychiatric care</u>			
TOTAL NUMBER OF SAMPLING POINTS: 5 or NO SAMPLING POINT			
NUMBER OF: ORDINANCE 5 CATEGORICAL COMBIN	ED		
CATEGORICAL INDUSTRY? YES ☐ NO ☒			
If Yes, 40 CFR Subpart	PSES 🗌	PSNS	
40 CFR Subpart	PSES 🗌	PSNS [
EXTRA STRENGTH SURCHARGE? YES ☐ NO ☒ If Yes, BOD CO	DD DC	TSS _	
RETURN FACTOR? YES ⊠ NO ☐ If Yes, Acct #(s) 20806	6, 208067	RF <u>0</u>	.68
SPECIAL CONDITIONS REQUIRED? YES ⊠ NO □ .			
All SMR start dates begin at start of calendar quarter: Same as/containing following permit e			date
SMR General Cert. B attached to first permit SP (001) at reporting frequency	of once/3m	o? Y ⊠	N□
SUPPORTING DOCUMENTS ATTACHED "Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Shee	YES t: ⊠	NO	N/A
Pollutant & Limitations Documentation Sheets:	\boxtimes		
Permit Preparation Checklist:	\boxtimes		
Production-based Standards Calc. Sheets (for Sampling Points)			\boxtimes
Mass-based Standards Calc. Sheets (for Sampling Points)			\boxtimes
Equivalent Concentration Limits Sheets (for Sampling Points)			\boxtimes
Most Strict Limits Sheets (for Sampling Points)			\boxtimes
Combined Wastestream Formula Sheets (for Sampling Points)			\boxtimes
Text of any Customized Special Conditions: If Yes, for which SCs:			\boxtimes
Other:			
COMMENTS (Include notations of any significant changes from New ownership, name change, new IUQ; all wastewater discharge volumes u		<u>):</u>	
11011 Officially, ficially change, new root, all wastewater discharge voluntes a	radiou.		

REV 03/23/2015

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PERMIT NO: 1020548800-3

SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS

#	#	[none]	#	[none]	lo Certs) $oxtimes$
#	#	[none]	#	[none]	NO ☐ N/A (No Certs) ⊠
#	#	[none]	#	[none]	YES
#	#	[none]	#	[none]	9 point (<u>001)</u> ?
#	#	[none]	#	[none]	associated with first permit sample point (001)?
# <u>D.3</u>	#	[none]	#	[none]	siated with first
# <u>E.18</u>	#	<u>[uoue]</u>	# <u>Rad.mat.discharge</u> <u>report</u>	once 3 mo	Are all the <u>SMR certifications</u> listed above assoc
# F.1	#	[none]	#	[none]	MR certificatio
Special Condition:	List any related SMR certifications:	SMR certification frequency:	List any related General Reports:	General Report frequency:	Are all the SI

Any OK?

Any significant changes? YES . NO Explain: Previous flowrate estimate was 98,651 GPD.

SAMPLING POINT I	SAMPLING POINT REFERENCE NUMBER: 001 Wastewater Components: NCCW, Sanitary, Hosp wast	1 TYPE: Ord ⊠ Cat □ Comb □ waste Kitchen waste Boiler blowdown Storm water	Cat □ Comb Comb	b ☐ Storm wate	ų.		
Flow Rate: 69,840	Units: GPD	1 8	IUQ		-1		
Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR etc)		Monitoring E	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	ring freq. Jous, low flow, etc)	중청
GENERAL:							
FLOW	Standard	n/a	ouce	once 3 mo	Standard		
ВОБ	Standard	n/a	ouce		Standard + volume		
000	Standard	n/a	ouce	once 3 mo	Standard + volume		
O&G	Standard	12559	ouce		Kitchen waste plus lab data presence	lab data presence	0
H	Standard	12559	ouce	once 3 mo	Standard + volume		
Temp	Standard	12559	ouce	once 3 mo	Standard + volume		
TSS	Standard	n/a	ouce	once 3 mo	Standard + volume		
Ord. TTO	Standard	12559	ouce	once/year S	Standard		
Total phenol	SP; added for hospitals	12559	once	3 mo	Typical for hospitals		
	. 10010						
DOT LONG	NICOL:		-	-			_
			none				
Silver (total)	Included for x-ray waste	12559	ouce	once 3 mo	Lab data shows presence	sence	
			[none]				
			[none]	0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			[none	0			
			[none]	9			
			euou]	[e			
			[non]	[6]			
			[none]	(a) (a)			
							-
Special Condition:	ndition: # <u>D.10</u> #	#	#	#	#	#	#
List related SMR certs: SMR cert frequency:	R certs: # # #	[none] #	# [none]	#	# [none]	#	# [none]
List related General Rpts: General Rpt frequency:	al Rpts: # #	# [noue]	# [none]	# [none]	#	# [none]	# [none]
Is this an Ord or Comb	Is this an Ord or Comb SP w/mon for TTO and that has no T	is no TOs on site? YES ☐	NO N	s, is SMR Gen	NO 🖂 If Yes, is SMR Gen Cert. A attached at once/3 mo freg.? YES	once/3 mo fred.3	, YES □
]		- Annia de Carlos de Carlo		-

PERMIT NO: 1020548800-3

TYPE: Ord ⊠ Cat □ Comb □

Wastewater Components: Sanitary, Hosp waste, Storm water

SAMPLING POINT REFERENCE NUMBER: 002

A O K 2 none [none] NO ⊠ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES □ Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc) [none] [none] Lab data shows presence # 世 Typical for hospitals Standard + volume Lab data presence [none] [none] Standard Standard # # # [none] none Any significant changes? YES
NO
Explain: Previous flowrate estimate was 56,850 GPD. Monitoring once 3 mo frequency once 3 mo once 3 mo once/year # * [none] [none] [none] [none] [none] [none] [none] [none] _ none_ [none] none Basis for limitation (Ord 12559, CFR___ etc) # # Basis for Flow Rate: IUQ Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES none none 12559 12559 12559 12559 12559 12559 # # _ | |-<u>_</u> n/a [none] none # # (or exclusion of std polls) Included for x-ray waste SP; added for hospitals Basis for inclusion none [none] # D 10 Units: GPD # # Standard Standard Standard Standard Standard Standard Standard Standard Special Condition: PRIORITY/CATEGORICAL: General Rpt frequency: List related General Rpts: List related SMR certs: SMR cert frequency: Flow Rate: 28,170 Total phenol **Pollutants** GENERAL Silver (total OTT. TO FLOW Temp O&G BOD 000 **SS** 푾

Any OK?

SAMPLING POINT	SAMPLING POINT REFERENCE NUMBER: 003	ER: 003	Ë.	Ord ⊠ Cat □ Con	Comb			
Flow Rate: 3,434	Wastewater Components. Sameny, nosp waste, storm water Flow Rate: 3,434 Units: GPD Basis for	waste, Storiff w Basis	Basis for Flow Rate: IUQ	g				
Pollutants	Basis for inclusion (or exclusion of std polls)		Basis for limitation (Ord 12559, CFR, etc)	50	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	oring freq.	₹ Ō
GENERAL:								
FLOW	Standard		n/a	ouo	once 3 mo	Standard		
ВОД	Standard		n/a	ouo	once 3 mo	Standard + volume	0	
goo	Standard		n/a	ouc	once 3 mo	Standard + volume	0	
୦୫୦	Standard		12559	ouo	once 3 mo	Lab data presence		
Hd	Standard		12559	ouo	once 3 mo	Standard + volume	0	
Temp	Standard		12559	ouo	once 3 mo	Standard + volume	a	
TSS	Standard		n/a	ouo .	once 3 mo	Standard + volume	0	
Ord. TTO	Standard		12559	ouo	once/year	Standard		
Total phenol	SP; added for hospitals	ls	12559	ouc	once 3 mo	Typical for hospitals	8	
				[none	[əլ			
PRIORITY/CATEGORICAL:	ORICAL:							
				[none]	le]			
				[none]	[əɪ			
				[none	[əı			
				[none	[əɪ			
				[none]	[əɪ			
and an analysis of the second				[none]	[əɪ	:		
				[none]	[ə _t			
				[none]	e			
				euou]	[91			
				[none	[e]			
Special Condition:	ondition: # <u>D.10</u>	#	#	#	#	#	#	#
List related SMR certs: SMR cert frequency:	R certs: #	#	#	# [none]	# [none]	#	# [none]	# [uoue]
List related General Rpts: General Rpt frequency:	al Rpts: # quency: #	#	# [uoue]	# [none]	# [none]	# 	[euou] #	# [none]
Is this an Ord or Comt	Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES	that has no TOs	on site? YES	NO ⊠ If Ye	es, is SMR <u>Gen</u>	NO 🖂 If Yes, is SMR <u>Gen Cert. A</u> attached at once/3 mo freq.? YES	at once/3 mo frec	1.? YES
Anv significant chan	Anv significant changes? YES ☐ NO ☒ Explain: Previous flowrate estimate was 8 450 GPD	Explain: Previ	olis flowrate est	mate was 8.4	รถ GPD			
		Lypidii: 10vi	Odo nowidio col	IIIato was 0,4	200			

PERMIT NO: 1020548800-3

TYPE: Ord ⊠ Cat □ Comb □

SAMPLING POINT REFERENCE NUMBER: 004

		CMBEN. 04	I're. Old 🖸 Vat 🗌 Volind]			
Wastewater Components: NCCW, Storm water	nents: NCCW, S		Doois for Elow Doto: II IO	<u>c</u>				
Pollutants	Basis for inclusion		Basis for limitation	5	Monitoring	Basis for monitoring freq.	oring freq.	An
	(or exclusion of std polls)	of std polls)	(Ord 12559, CFR			(std for vol, etc; innocuous, low flow, etc)	uous, low flow, etc)	Š
GENERAL:								
FLOW	Standard		n/a	once	once 3 mo	Standard		
BOD	Standard		n/a	once/year		Infrequent, low volume	nme	
COD	Standard		n/a	once/year		Infrequent, low volume	ume	
O&G	Not included		n/a	[none]		Type of effluent		
Ha	Standard		12559	once/year		Infrequent, low volume	ume	
Temp	Standard		12559	once/year		Infrequent, low volume	ume	
TSS	Standard		n/a	once/year		Infrequent, low volume	nme	
Ord. TTO	Excluded from sampling	sampling	n/a	euou]		Removed from monitoring	nitoring	
				[none]	-			
				[none]				
PRIORITY/CATEGORICAL	RICAL:							
				[none]	[6			
				[none]	5			
				[none]				
				[none]				
				[none]				
				[none]	[6			
		-		euou	4			
				luoue				
				luone				
				none				
Special Condition:	ndition: # <u>D.10</u>	.10 # <u>D.1</u>	# E.4	#	#	#	#	#
74 4 C L		F F	*	4	‡	*	*	‡
List related SMR certs: SMR cert frequency:	#		ar once 3 mo	[none]	#	# [none]	louou]	[none]
List related General Rpts: General Rpt frequency:	#	[nou] # [noue]	# [none]	# [none]	#	# [none]	#	#
Is this an Ord or Comb SP w/mon for TTO and that has no T	SP w/mon for TT	O and that has no To	Os on site? YES	NO 🛭 If Yes	s, is SMR <u>Gen</u>	NO 🔀 If Yes, is SMR <u>Gen Cert. A</u> attached at once/3 mo freq.? YES [at once/3 mo freq	? YES □
Any significant changes? YES ☐ NO ⊠	ges? YES □ I	VO 🛭 Explain: Pre	Explain: Previous flowrate estimate was 400 GPD	mate was 400	GPD.			

Any OK?

Any significant changes? YES

NO

Explain: Previous flowrate estimate was 5,000 GPD.

SAMPLING POINT REFERENCE NUMBER: 005	REFERENCE NUMB	SER: 005	TYPE: Ord ⊠ Cat □ Comb □	Comb				
Wastewater Components: Sanitary. Hosp waste.	ents: Sanitary. Hosp	waste, Storm water	iter]				
Flow Rate: 2,915	Units: GPD		Basis for Flow Rate: IUQ					
Pollutants	Basis for inclusion (or exclusion of std polls)	l polls)	Basis for limitation (ord 12559, CFR, etc)	n Monitoring	D	Basis for monitoring freq. (std for vol, etc; innocuous, low flov	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	A
GENERAL:								
FLOW	Standard		n/a	once 3 mo	o Standard	ard		
ВОД	Standard		n/a	once 3 mo		Standard + volume		
COD	Standard		n/a	once 3 mo		Standard + volume		
O&G	Standard		12559	once 3 mo		Lab data presence		
Hd	Standard	:	12559	once 3 mo		Standard + volume		
Temp	Standard		12559	once 3 mo		Standard + volume		
TSS	Standard		n/a	once 3 mo		Standard + volume		
Ord. TTO	Standard		12559	once/year		ard		
Total phenol	SP; added for hospitals	als	12559	once 3 mo		Typical for hospitals		
				[none]				
PRIORITY/CATEGORICAL	RICAL:							
				[none]				
				[none]				
				[none]				
	-		-	[none]				
				[none]				
				[none]				
				[none]				
				[none]				
				[none]				
				[none]				
Special Condition:	ndition: # <u>D.10</u>	# <u>D.1</u>	#	#			#	#
List related SMR certs: SMR cert frequency:	certs: # [none]	# <u>D</u> once 3 mo	# [none]	# [<u>louou</u>]	[none]	#	#	# [none]
List related General Rpts: General Rpt frequency:	al Rpts: # [none]	# [none]	# [<u>uoue]</u>	# [<u>louou]</u>	lone	# [none]	# [none]	# [none]
Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES	SP w/mon for TTO an	d that has no TOs		NO 🖂 If Yes, is SMR <u>Gen Cert. A</u> attached at once/3 mo freq.? YES	SMR Gen Cert.	A attached at o	once/3 mo freq.'	YES 🗌

PERMIT PREPARATION CHECKLIST – PART 1 (Fact Sheet Attachment)

Company Name: <u>SSM HEALTH ST LOUIS UNIVERSITY HOSPITAL</u> Permit No.: <u>1020548800-3</u>

Effective Date: 9/1/2015

Prepared by: S. REHMER

Date: 8/18/2015

ANS	REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND SWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING AND SWERT THE PRIOR TO DEVELOPING AND SWERT THE PRIOR THE PRIO	PERMIT APPLICATION. NG THE DRAFT PERMIT	
<i>1.</i>	ัดสามาคนามหลายและและและและและและและและและและและและและแ	Yes N	
٠.	If no, add delete:	ies 🖂 iv	ю []
<i>a n n n n</i> 2 .	<u>. </u>	vananananananananan Yes 🔲 N	
-	If yes, date last certified:	res 🗀 N	10 🖂
	If yes, Special Condition F.2 applies.		
3.	Does user's premise have more than one MSD account?	Yes 🔯 N	آث آث
	If yes, were all account numbers correctly listed (including occupant #s)	? Yes ⊠ N	lo 🗌
****	If no, have account numbers been corrected in database before		lo 🗌
4.	Does user have a Return Factor (RF) other than 1.00 for any account?	Yes X N	lo 🗂
	If yes, list acct no., RF and date last updated:		
	Acct <u>00208066</u> RF <u>0.68</u> Updated <u>4/2/2001</u>		
	Acct <u>00208067</u> RF <u>0.68</u> Updated <u>1/27/2003</u>		
W BOBOLOW	If yes, Special Condition F.1 applies. «««Հայաստանան արտարանանանանանան» ««արտ անանան» արտարարությունը և ընտարարությունների և արտարանան արտարանան անձա	MEGONERUM 10-10-10-10-10-10-10-10-10-10-10-10-10-1	CH HARAC
5.	Does user discharge water from a source not included in the MSD Billing system	າ? Yes 🗌 N	lo 🛛
	If yes, Special Condition F.3 & General Report "Discharge Volume for B If yes, Is a flow meter used to record the volume discharged from this of		
	If yes, SC E.37 and Gen. Rpt. "Calibration of Discharge Flow Me		lo 📙
	If no, SC E.38 applies.	есег арріу.	
<i>6.</i>	(CONT MATCHING AND CHAPTER CHA	MARKANIAN WALANDA WALA	e server server.
0.	Have you established agreement among permit application, water consumption PIMS on component flows at each SP, total SP flows and total premise flow?	records and Yes ⊠ N	ю 🔲
	If no, explain		
7.	Has user been granted any variances from ordinance limitations?	Yes ☐ N	lo 🏹
	If yes, Application Date:	_	
	Approval Date:, or approved as part of this permit issuance	ce? Yes 🗌	
	(Variances cannot last more than 5 years after approval)		
	If yes, Parameter(s) at SP(s)		
e umana	If yes, Special Condition C.4 applies. Have any numerical limitations been applied to user, in addition to those already	renementalis a renementalis de la composição de la compos	on nemer.
8.	the ordinance?	contained in Yes N	10 XI
	If ves. Parameter(s) at SP(s)	. 🗆	
	Date limit(s) originally applied:, or as part of variance abo	ive?	
	Date limit(s) originally applied:, or as part of variance abo If yes, are Special Conditions, other than the standard special conditions If yes, explain under "non-standard special conditions" question	below.	
9.	Does user discharge any radioactive materials?	Yes 🔯 N	lo Π
	If yes, Special Condition <u>E.18</u> & General Report "Radiation Discharge" a	apply.	
10.	Does user generate wastes and/or wastewater by genetic engineering research?	? Yes 🗍 N	lo 🔯
CHORON M	If yes, Special Condition B.12 applies.		CHARACH AC
11.	Do all of the user's active connections, to MSD sewers, have identified SPs?	Yes ⊠ N	lo 🗌
	If no, explain:	-	
	If no, is documentation sufficient to use Special Condition E.5 ☐ "Sampling Not-Required at Connections with NO SP <u>and</u> with SP	Yes ☐ N	ю 📙
	E.6 Sampling Not Required at Connections with NO SP and with SP E.6 "Sampling Not Required at Connection with NO SP on it",	on parts ,	
	E.7 Sampling Not Required at Connection with NO or only part of it.	or	
	E.8 "Sampling Not Required at Permittee with No SP"?	, 0.	
	If no, is compliance schedule necessary to obtain documentation	n? Yes ☐ N	οП
	If yes, Special Condition G.1 is necessary.		• ш
12.	Does premise require use of "upstream/downstream" sampling?	Yes 🔲 N	o 🕅
	If yes, Upstream SP# & Downstream SP#	named	
9 H & H H	If yes, Special Conditions D.11 and E.9 apply.		
13.	Are there any inactive connections to MSD sewers?	Yes ☐ N	
* * * * * *	If yes, Special Condition E10 applies. "Have you verified, in PIMS, the SP location descriptions are complete and adequate the second		2 11 11 11 11 .
14.	эт чилин жийн жийн жийн жийн жийн жийн жийн жи	and the contract of the contra	0
15.			
g ROBOROLE SE	flows at all SPs, are complete and adequate?	Yes 🔯 N תייני פרונוניות על על של או	0 📙
DEVIC	6/20/2015		
UE A 0	6/30/2015		

16.	Does user have any discharges subject to NPDES permitting regulations?	Yes 🗌 No 🛛
	If yes, list MSD points & corresponding NPDES points:	
	If yes, Special Condition E.14 applies.	
17.	Do any SPs convey stormwater in addition to regulated wastewater?	Yes ⊠ No 🗍
•••	If yes, list points: <u>001, 002, 003, 004, 005</u> and note on P&LD sheets.	,
	If yes, Special Condition D.10 applies.	
<i>u nom to e</i> 18.	องและและเพื่อเป็นเป็นเป็นเป็นเป็นเป็นเป็นเป็น และ	Yes 🔲 No 🔯
10.		163 🔲 140 🔯
	If yes, list points and note on P&LD sheets.	
CH HANGA	If yes, no self-monitoring is required, and Special Condition E.3 applies.	IO DO DO BORO MORO MORO DE SE SE SE DE SE SE
19.	Are there SPs where user discharges only non-process wastewater?	Yes ⊠ No 🔲
	If yes, does no self-monitoring requirement / Special Condition E.3 apply?	Yes 🗌 No 🛛
U K 21 K H	If yes, list points and note on P&LD sheets.	**************
20.	Are there SPs with infrequent discharges that require coordination with the user for MSD to	
	collect samples:	Yes 🗌 No 🛛
	If yes, list points: and note on P&LD sheets. If yes, Special Condition D.14 applies.	
6 4 NH/NH/NH/N	ir yes, Speciai Condition D.14 applies. கூறாக நாக்காகாக கண்ணாக கண	N. POLIO, D. DE M. DOLDONOMONO DE MODELO
21.	Is documentation adequate to allow use of grab samples in lieu of composites at any SPs?	Yes ⊠ No □
	If yes, list points 004, 005 and note on P&LD sheets.	
# # # # #	If yes, Special Condition D.1 applies.	*************
22.	Are there SPs with self-monitoring requirements, but at less than a quarterly frequency, for	
	all parameters?	Yes 🛛 No 🗌
	If yes, list points <u>004</u> and note on P&LD sheets.	
H MOMONOM	If yes, Special Condition <u>E.4</u> applies.	ONOSO NE HOMONONOSO NOSO NOSO NOSO.
23.	Can local limits TTO be removed from monitoring at any ordinance SPs?	Yes 🛛 No 🗌
	If yes, list points <u>004</u> and explain on P&LD sheets. If yes, does TTO also need to be removed from MSD's monitoring?	
	If yes, discuss with inspector (name:) and explain why it had	Yes 🗌 No 🛛
******	been monitored by MSD: Does user have a history of compliance problems at this or a previous location?	
24.		Yes 🗌 No 🛛
	If yes, explain problems:	p
	If yes, is a compliance schedule required?	Yes 🔲 No 🗌
	If yes, Special Condition G.1 applies.	
	Is supporting documentation attached?	Yes 🗌 No 🗌
	If yes, are any other special requirements required?	Yes 🗌 No 🗌
****	Explain:	***************
25.	Is user required to monitor for Total Phenois at an ordinance SP?	Yes 🛛 No 🗌
	If yes, does Special Condition <u>D.3</u> for Total Phenols monitoring options apply?	Yes 🛛 No 🗌
<i>u жа</i> ший 26 .	Has user chosen to employ continuous monitoring techniques for:	STO SHO TO SHORE SHORE SHORE SHORE SHORE SHORE SHO
20.	nH2 If yes list points SC F 29 & Gen Rnt "Cont-Mon nH Excursions" apply	Yes 🗌 No 🛛
	pH? If yes, list points SC E.29 & Gen Rpt "Cont-Mon pH Excursions" apply. Temp? If yes, list points SC E.30 & Gen Rpt "Cont-Mon Temp Excursions" apply.	Yes ☐ No 🛛
	LEL? If yes, list points SC E.31 & Gen Rpt "Cont-Mon LEL Excursions" apply.	Yes ☐ No ☒
		Les 🗀 MO 🔯
	If yes for pH or Temp, have corresponding SP limits in PIMS been set to 'Alert Only'	Voc III No II
10 M 10 M 10 M	and does PIMS Monitoring Special Instructions have notes re. field 'violations'?	Yes No
27.	Does the company perform any processes for which summaries of activities are needed? If yes, Special Condition E.33 & General Report "Process Activity Summary" apply. Are special billing conditions, other than the standard Special Conditions, needed?	Yes 🗌 No 🛛
	11 yes, special condition L.33 & General Report Process Activity Guillinary apply.	
28.	Are special <u>billing</u> conditions, other than the standard Special Conditions, needed?	Yes ☐ No 🛛
	If yes, describe:	
	If yes, Special Condition F.4 applies.	
	Does General Report "Discharge Volume for Billing" apply?	Yes 🔲 No 🔲
	Does General Report "Custom Non-Standard" apply?	Yes No
~ 29. ~	Äre any Special Conditions, other than the standard special conditions, required?	Yes ☐ No 🛛
	If yes, explain:	
	Which Special Condition applies?	
	Is supporting documentation attached?	Yes 🗌 No 🗌
	If no, explain:	· hanned · · · · hanned
	Does General Report "Custom Non-Standard" apply?	Yes 🗌 No 🔲
70 30	Is user a hauled waste industry, discharging its wastewater at the Hauled Waste Station?	Yes ☐ No ⊠
30.		169 T 140 M
	If you have I I normit title I I cover name 2.1 I denoted conditions been modified?	Voc No
	If yes, have permit title, cover page, and general conditions been modified?	Yes 🗌 No 🗍
e a a a a	If yes, Special Conditions B.9, C.7, D.13, H.1, and H.2 apply.	
*		Yes ☐ No ☐

List all the Special Conditions from Part 1 that are applicable to this permit.
List those that are specific to a sampling point on that sampling point's fact sheet, too.
List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

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3, 04, 05
005
-



Metropolitan St. Louis Sewer District

Division of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913

Phone: 314.768.6200 www.stlmsd.com

December 1, 2011

Mike Jones, Chief Engineer ST. LOUIS UNIVERSITY HOSPITAL 3635 Vista Avenue P.O. Box 15250 St. Louis. MO 63110-0250

Discharge Permit No:

4112195100 - 2

For premise at:

3635 & 3655 Vista Avenue, St. Louis, MO 63110

Dear Mr. Jones:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Added Biochemical Oxygen Demand to the sampling list at Sample Point 004 as a standard pollutant required by all permitees
- Added special condition and special certification for grab sampling authorized at Sample Points 004 and 005 in lieu of composite sampling
- Added sampling and reporting requirement for sampling ordinance total phenols, required by all hospitals and health care facilities

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer, Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit,

Self-monitoring Report Form, Self-monitoring Report Instructions

cc: Doug Mendoza Mike Kynion

METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195100 - 2

EFFECTIVE DATE:

January 01, 2012

EXPIRATION DATE:

December 31, 2016

ISSUED TO: ST LOUIS UNIVERSITY HOSPITAL

3635 & 3655 Vista Avenue

St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5 SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer Assistant Engineer

r. of Industrial Pretreatment

Permit No.: Page No.: <u>4112195100 - 2</u> 2

ge No.:

Effective Date:

January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION:

MH in driveway W of loading dock at SW corner of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 98,651

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water (HVAC) + Sanitary + Hospital Waste (including x-ray waste) + Kitchen Waste + Boiler Blowdown + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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Page No.: Effective Date:

January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION:

MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 56,850

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste (including x-ray waste) + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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Page No.: Effective Date:

January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION:

MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 8,450

WASTEWATER SOURCE AND CATEGORY: Storm Water + Hospital Waste + Sanitary

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION:

6" t-vent inside W Pavilion parking garage 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 400

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	***	Daily Avg	Once/year
oH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION:

MH 93 'S, 9'W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 5,000

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

- 1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.
 - 2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive <u>sampling</u> days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

- 3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:
 - a. Temperature, pH and chlorine residual measurements, when required, shall be made on-site at the points of discharge and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
 - b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.
 - c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

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4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

- a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.
- b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

- 5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.
- 6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.
- 7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.
- 8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.
- 9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:
 - All facility and sample description information required on the District's reporting form.
 - b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
 - c. Daily flows, with dates, for all measurements or estimates made within the quarter.
 - d. Any certification statements required pursuant to the Special Conditions in Section II.
 - e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for <u>each</u> calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. The <u>first report</u> under this permit is due by <u>April 28, 2012</u>. For non-quarterly self-monitoring requirements, the permit year commences on <u>January 1</u>.

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10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

- 1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.
- 2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.
 - 3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:
 - a. Any discharge from a new process or facility or a new source.
 - b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
 - e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
 - g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

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Effective Date: January 01, 2012

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

- 1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.
- 2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

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H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District Division of Environmental Compliance 10 East Grand Avenue St. Louis, Missouri 63147-2913

- 2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.
- 3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

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Effective Date:

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SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling points 004 and 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

A.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005 may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

A.3. Sampling/Reporting Req for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol 4,6-dinitro-2-methylphenol pentachlorophenol

2-chlorophenol 2,4-dinitrophenol phenol

2,4-dichlorophenol 2-nitrophenol 2,4,6-trichlorophenol

2,4-dimethylphenol 4-nitrophenol

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

B.1. Certification Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

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B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

(1) For materials subject to licensing by the Nuclear Regulatory Commission:

5 curies Hydrogen-3

1 curie Carbon-14

1 curie for all other radioactive materials combined

(2) For all other materials:

1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

C. SPECIAL BILLING REPORTING REQUIREMENTS

C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on sixty-eight (68) percent of the used water (on an annual basis) being discharged to the District from both account numbers 00208066 and 00208067. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

Company Name: ST LOUIS UNIVERSITY HOSPITAL Permit No: 4112195100-2 Effective Date: 01/01/2012 Expiration Date: 12/31/2016 Premise Address: 3635 & 3655 Vista Avenue, 63110 Monitoring Period: □(JAN-MAR) □(APR-JUNE) □(JULY-SEPT) □(OCT-DEC) Samples Collected By: Analyses Performed By: PART II: ANALYTICAL RESULTS OF SELF MONITORING MSD SAMPLE POINT REFERENCE NUMBERS □ TIMES AT WHICH SAMPLES WERE COLLECTED □ PARAMETER □LIMIT RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW UNITS FLOW □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	PART I: IDENTIFYING INFORM	MATION						
Premise Address: 3635 & 3655 Vista Avenue, 63110 Monitoring Period: (JAN-MAR)	Company Name: ST LOUIS UNIVERSITY HOSPITAL							
Monitoring Period: □(JAN-MAR) □(APR-JUNE) □(JULY-SEPT) □(OCT-DEC) Samples Collected By: Analyses Performed By: PART II: ANALYTICAL RESULTS OF SELF MONITORING MSD SAMPLE POINT REFERENCE NUMBERS □ □ □ □ □ DATES ON WHICH SAMPLES WERE COLLECTED □ □ □ □ □ TIMES AT WHICH SAMPLES WERE COLLECTED □ □ □ □ □ □ PARAMETER □ LIMIT RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow) UNITS	Permit No: 4112195100-2	Effective I	Date: 01/01/2	012	Expiratio	n Da	ite: 12/31/201	16
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	FLOW							

					4.25.			

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED

For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following

PART III: SPECIAL CERTIFICATION STATEMENTS

certification for each report in which monitoring is waived:

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.

	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 004.
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample points 004 & 005.
PA B	RT IV: GENERAL CERTIFICATION STATEMENTS DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below: I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Print or type name of signing official:
	Title:Telephone:
	Signature: Date:



Metropolitan St. Louis Sewer District

Division of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913

Phone: 314.768.6200 www.stlmsd.com

December 1, 2011

Mike Jones, Chief Engineer ST LOUIS UNIVERSITY HOSPITAL 3635 Vista Avenue P.O. Box 15250 St. Louis, MO 63110-0250

Re: Discharge Permit No:

4112195100 - 2

For premise at:

3635 & 3655 Vista Avenue, St. Louis, MO 63110

Dear Mr. Jones:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Added Biochemical Oxygen Demand to the sampling list at Sample Point 004 as a standard pollutant required by all permitees
- Added special condition and special certification for grab sampling authorized at Sample Points 004 and 005 in lieu of composite sampling
- Added sampling and reporting requirement for sampling ordinance total phenois, required by all hospitals and health care facilities

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer, Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit.

Self-monitoring Report Form, Self-monitoring Report Instructions

cc: Doug Mendoza Mike Kynion

PRIORITIES PERFORMANCE SERVICE

METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112193600 - 3

EFFECTIVE DATE:

February 01, 2012

EXPIRATION DATE:

January 31, 2017

ISSUED TO: ST LOUIS UNIVERSITY HEALTH SCIENCES CENTER

1402 S. Grand Blvd. St. Louis, MO 63104

SIC NUMBER(S): 8011, 8221, 8733

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS:

SAMPLING PT. REF NUMBER(S): 001, 002, 003

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer Assistant Engineer

Douglas M. Mendoza, P.E. Mgr. of Industrial Pretreatment

Page No.: Effective Date:

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February 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION:

MH 99' N, 9' E of SE Corner at Vista - total flow

AVERAGE WASTEWATER FLOW (GPD): 57,560

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non Contact Cooling Water + Process Waste (Research labs & animal care) + Plant & Equipment Washown

			V 22 AND
	/32	Limit	Sampling 🔪
Parameter	Lim it *	Туре	Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]		Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	**
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Bully Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Iristant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- * Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for exclanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Countries
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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Page No.: Effective Date:

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DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION:

Flow from 6" pipe from SW & pipe from S in MH 6'N, 30' W of NE corner

of Building 3525

AVERAGE WASTEWATER FLOW (GPD): 700

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
Parameter	Limit * Type ***	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD] Oil and Grease (Total) [mg/L] Temperature [Deg C] Total Suspended Solids [mg/L]	Daily Avg	Once/6 mo
Total Toxic Organics [mg/L] pH [SU] pH [SU]	5.844 Instant 11.5 Instant 5.5 Instant	Once/year Once/6 mo Once/6 mo

- * Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section 1.A.2 of the permit conditions.
- Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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Page No.: ____ Effective Date: F

February 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION:

Manhole in sidewalk on Carr Lane, 28' N of service drive, 48 E of

building at 1100 S Grand

AVERAGE WASTEWATER FLOW (GPD): 32,374

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non Contact Cooling Water + Process Waste(Bio-medical research & animal care) + Boiler Blowdown + Regeneration/Reject Water

	/ i		
	/ 33	Limit 🛵	Sampling 🤏 🤃
Parameter	Limit *	Туре	Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]		Daily Avg	Once/3 mo
Cadmium (Total) [mg/L]	0.7	- Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Chromium (Total) [mg/L]	5.0	Daily Avg	Once/3 mo
Copper (Total) [mg/L]	2.7	Baily Avg	Once/3 mo
Cyanide (Amenable to Chlorination) [mg/L]	1.2	Ins tant	Once/3 mo
Flow [GPD]		Daily Avg	***
Lead (Total) [mg/L]	0.4	Daily Avg	Once/3 mo
Mercury (Total) [mg/L]		Daily Avg	Once/3 mo
Nickel (Total) [mg/L]	2.3	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	₹ 60	Instant	Once/3 mo
Total Phenols [mg/L]	\ `` 21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
Zinc (Total) [mg/L]	3.0	Daily Avg	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V. Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

- 1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.
 - 2. The limitation types, which may be specified in this permit, are **define**d as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the **INSTANT** limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or **mass** of the pollutant in a composite sample collected within a 24-hour period.

A DAILY MAX limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A MONTHLY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A 4-DAY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

- 3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:
 - a. Temperature, pH and chlorine residual measurements, when required, shall be made on-site at the points of discharge and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
 - b. For oil and grease, total phènols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.
 - c. For all other **pollutants**, samples shall be **COMPOSITE SAMPLES** made up by combining a **minimum** of four individual grab samples within a 24-hour period. The individual grabs must be adequately **flow** or time proportioned to ensure a composite sample that is representative of that day's discharge.

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When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471

For all other discharges the applicable toxic organics are all of those, from the dist in 40 CFR 401.15. which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

- Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.
- All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto un other techniques are prescribed, within this permit, for specific parameters.
- 7. If the permittee employs continuous monitoring techniques for old, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temperary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Commance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and lower explosive limit.
- If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.
- A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental compliance for each calendar quader. Each report shall include:

 - All facility and sample description information required on the District's reporting form.

 Analytical results, with dates and times, for all analyzed samples collected within the quarter.

 Daily flows, with dates, for all measurements or estimates made within the quarter. b.
 - C.
 - d.
 - Any certification statements required pursuant to the Special Conditions in Section II.

 Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

> The report must be postmarked no later than: For the calendar quarter of: January 1 through March 31 April 1 through June 30 April 28 July 28 July 1 through September 30 October 28 October 1 through December 31 January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. The first report under this permit is due by July 28, 2012. For non-quarterly self-monitoring requirements, the permit year commences on April 1.

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- 10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.
- 11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

- 1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.
- 2. The permittee shall notify the District's **Division of Environmental Compliance of any proposed significant** new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.
 - 3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:
 - a. Any discharge from a new process or facility or a new source.
 - b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
 - e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
 - g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

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Effective Date:

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2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated **bypass, advance** notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

- 1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.
- 2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

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Page No.: Effective Date:

February 01, 2012

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for **not** less than **five** (5) years, all **records**, books, documents, memoranda, reports, sample analysis results, correspondence and **any and all** summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District Division of Environmental Compliance 10 East Grand Avenue St. Louis, Missouri 63147-2913

- 2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.
- 3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

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Page No.: _______ Effective Date: ______

February 01, 2012

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

A.1. Grab Sampling Authorized

The permittee is authorized to perform self-monitoring at sampling point 002, using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly self-monitoring report in which grab sampling occurs, that the grab sample results accurately represent the permittee's average daily discharge.

A.2. Sampling/Reporting Requirement for Ordinance Total Phenois

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol

4,6-dinitro-2-methylphenol

pentachlorophenol

2-chlorophenol

2,4-dinitrophenol

phenol

2,4-dichlorophenol

2-nitrophenol

2,4,6-trichlorophenol

2,4-dimethylphenol

4-nitrophenol

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported.

Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

A.3. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, and 003, may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

B.1. Certification Requirement for Sample Points with less than Quarterly Sampling Frequency

At sampling point 002, permittee is required to sample the discharge only once per six (6) months. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 002 since the last report.

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Effective Date:

February 01, 2012

B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

(1) For materials subject to licensing by the Nuclear Regulatory Commission:

5 curies Hydrogen-3

1 curie Carbon-14

1 curie for all other radioactive materials combined

(2) For all other materials:

1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

C. SPECIAL BILLING REPORTING REQUIREMENTS

C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on eighty-five (85) percent from account number 00208062, and sixty-eight (68) percent from account number 00464430, of the used water (on an annual basis) being discharged to the District. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORM	MATION							
Company Name: ST LOUIS UNIVER	SITY HE	ALT	H SCIENCE	S CEI	NTER			
Permit No: 4112193600-3						on Date	∋ : 01/31/20	17
Premise Address: 1402 S. Grand Blv					•		01/01/20	• •
Monitoring Period: □(JAN-MAR))	□(A	PR-JUNE)		□(JULY-S	EPT)	□ (O	CT-DEC)
Samples Collected By:						• /		o, blo,
Analyses Performed By:								
PART II: ANALYTICAL RESULT	rs of si	ELF I	MONITORIN	IG				
MSD SAMPLE POINT REFERENCE NUMBERS	⇔					7		
DATES ON WHICH SAMPLES WERE COLLECTED	⇔				<			
TIMES AT WHICH SAMPLES WERE COLLECTED	₽							
PARAMETER	LIMIT	RE	CORD SAMPLE (G=grab, C=c	TYPES omposite	(G, C, M OR E)	AND RES	ULTS BELOW ed flow)	UNITS
FLOW								
					`	1		
						1 1		
						1		
		1						
			, , , , , , , , , , , , , , , , , , ,					

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.

Α	NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED	
	For permit special conditions that waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification for each report in which monitoring is waived:)
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sample point 002.	
D	GRAB IN LIEU OF COMPOSITE REPRESENTS WASTEWATER DISCHARGE	
	For permit special conditions that authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification for each report in which such authorized grab samples occur:	
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point 002.	

PART IV: GENERAL CERTIFICATION STATEMENTS

DISCHARGE MOI	NITORING REPORT CERTIF	CATION
DISCHARGE MO	THE STATE OF THE SECOND	
All permittees must	sign and complete the information	n below:
a system designed to	assure that qualified personnel pro-	ttactments were prepared under my direction or supervision in accordance with perly gather and evaluate the information submitted. Based on my inquiry of the
person or persons whis, to the best of my kinformation, including	no manage the system, or those per nowledge and belief, true, accurate the possibility of fine and imprisonn	sons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting false
person or persons whis, to the best of my kinformation, including	no manage the system, or those per nowledge and belief, true, accurate,	sons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting false
person or persons whis, to the best of my kinformation, including	no manage the system, or those per- nowledge and belief, true, accurate, the possibility of fine and Imprisonn signing official:	sons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting false
person or persons whis, to the best of my kinformation, including	no manage the system, or those per- nowledge and belief, true, accurate, the possibility of fine and Imprisonn signing official:	sons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting falsonent for knowing violations.



Metropolitan St. Louis Sewer District

Division of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913

Phone: 314.768.6200 www.stlmsd.com

November 9, 2011

Mike Jones, Chief Engineer ST. LOUIS UNIVERSITY HOSPITAL 3635 Vista Avenue P.O. Box 15250 St. Louis, MO 63110

Re: Discharge Permit No:

4112195100 - 2

For premise at:

3635 & 3655 Vista Avenue, 63110

Dear Mr. Jones:

The Metropolitan St. Louis Sewer District has completed its review of your application for renewal of the Industrial Wastewater Discharge Permit for the above premise. The current permit becomes effective on January 1, 2012, and expires on December 31, 2016.

Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the draft permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Added Biochemical Oxygen Demand to the sampling list at Sample Point 004 as a standard pollutant required by all permitees
- Added special condition and special certification for grab sampling authorized at Sample Points 004 and 005 in lieu of composite sampling
- Added sampling and reporting requirement for sampling ordinance total phenols, required by all
 hospitals and health care facilities

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the draft permit, and we will proceed to issue the final permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer, Assistant Engineer

Enclosures: Draft Industrial Wastewater Discharge Permit

cc: Doug Mendoza Mike Kynion

METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195100 - 2

EFFECTIVE DATE: EXPIRATION DATE:

January 01, 2012 December 31, 2016

ISSUED TO: ST LOUIS UNIVERSITY HOSPITAL

3635 & 3655 Vista Avenue St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal are including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer Assistant Engineer

Douglas M. Mendoza, P.E. Mgr. of Industrial Pretreatment

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Page No.: Effective Date:

January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

MH in driveway W of loading dock at SW corner of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 98,651

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water (HVAC) + Santary + Hospital Waste (including x-ray waste) + Kitchen Waste + Boiler Blowdown + Storm Water

001

	A CONTRACTOR OF THE PERSON OF	**	1000
	A	Limit	Sampling
Parameter	/ Lynn	турь	Frequency
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD]		Laily Avg Laily Avg Daily Avg	Once/3 mo Once/3 mo
Oil and Grease (Total) [mg/L]	200	Can stant	Once/3 mo
Silver (Total) [mg/L]	0.5	X Avg	Once/3 mo
Temperature [Deg C]	60		Once/3 mo
Total Phenols [mg/L]	21	Instant 🔻	Once/3 mo
Total Suspended Solids [mg/L]		Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- * Limits are based on MSD Ordinaries 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2 B of the Ordinaries
- ** See Section I.A.2 of the parmit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- See Section I.A.11 of the permit conditions.

Page No.: Effective Date:

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3

January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 002

SAMPLING POINT LOCATION:

MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 56,850

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste (including x-ray waste) + Storm

	<u> </u>	
Parameter	Limit * Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD] Oil and Grease (Total) [mg/L] Silver (Total) [mg/L] Temperature [Deg C] Total Phenols [mg/L] Total Suspended Solids [mg/L] Total Toxic Organics [mg/L] pH [SU] pH [SU]	Daily Avg Instant Daily Avg S.844 Instant Daily Avg Instant Daily Avg Instant Instant Daily Avg Instant	Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- See Section I.A.11 of the permit conditions.

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Page No.: Effective Date:

January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: (

003

SAMPLING POINT LOCATION:

MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 8,450

WASTEWATER SOURCE AND CATEGORY: Storm Water + Hospital Waste + Sanitary

Parameter	Jamit 3	Limit Type <u>*</u> *	Sam pling Freque ncy
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD] Oil and Grease (Total) [mg/L] Temperature [Deg C] Total Phenols [mg/L] Total Suspended Solids [mg/L] Total Toxic Organics [mg/L] pH [SU] pH [SU]	200 60 21 **** 5.844 11.5 5.5	Daily Avg Daily Avg Daily Avg Instant Instant Instant Daily Avg Instant Instant Instant Instant	Once/3 mo Once/year Once/3 mo Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions
- *** Report a measured or estimated average daily flow for at least one representative operating day per guarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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Page No.: Effective Date:

5 January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION:

6" t-vent inside W Pavilion parking garage 10' N, 18 F of SW corner

AVERAGE WASTEWATER FLOW (GPD): 400

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water + Storm Water

		<u>\$2.1</u>	
Parameter	Emit*	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD]	***	Daily Avg Daily Avg Daily Avg	Once/year Once/year
Temperature [Deg C] Total Suspended Solids [mg/L] pH [SU] pH [SU]	60 ***** 11.5 5.5	Instant Daily Avg Instant Instant	Once/year Once/year Once/year Once/year

Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

^{**} See Section I.A.2 of the permit conditions.

Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

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6 January 01, 2012

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 0

SAMPLING POINT LOCATION:

MH 93 'S. 9' W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 5,000

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

			W 20467829610
Parameter	Limit*	Limit Type **	Sam pling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L] Chemical Oxygen Demand [mg/L] Flow [GPD] Oil and Grease (Total) [mg/L] Temperature [Deg C] Total Phenols [mg/L] Total Suspended Solids [mg/L] Total Toxic Organics [mg/L] pH [SU] pH [SU]	200 60 21 5.844 11.5 5.5	Daily Avg Daily Avg Daily Avg Instant Instant Instant Daily Avg	Once/3 mo Once/3 mo *** Once/3 mo Once/3 mo Once/3 mo Once/3 mo Once/3 mo Once/3 mo Once/year Once/3 mo Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

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Page No.:
Effective Date: Janua

January 01, 2012

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

- 1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.
 - 2. The limitation types, which may be specified in this permit, are defined as follows:

An INSTANT limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or **mass** of the pollutant in a composite sample collected within a 24-hour period.

A DAILY MAX limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A MONTHLY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A 4-DAY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

- 3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:
 - a. Temperature, pH and chlorine residual measurements, when required, shall be made on-site at the points of discharge and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
 - b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be Grab Samples.
 - c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a **minimum** of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

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Effective Date:

January 01, 2012

When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471

For all other discharges the applicable toxic organics are all of those, from the Jistin 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

- Sampling of all discharges shall be conducted in such a manner as to ansure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.
- All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 10 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.
- If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted timitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and a lower exclosive limit.
- If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.
- A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:
 - All facility and sample description information required on the District's reporting form.
 - Analytical results, with dates and times, for all analyzed samples collected within the quarter. b.
 - C.
 - Daily flows, with dates, for all measurements or estimates made within the quarter.

 Any certification statements required pursuant to the Special Conditions in Section II.
 - Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

The report must be postmarked no later than: For the calendar quarter of: January 1 through March 31 April 28 July 28 April 1 through June 30 October 28 July 1 through September 30 January 28 October 1 through December 31

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. The first report under this permit is due by April 28, 2012. For non-quarterly self-monitoring requirements, the permit year commences on January 1.

Permit No.: 4112195100 - 2 Page No.: 9 January 01, 2012

Effective Date:

If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Deniand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms withis permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used to billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE.

- The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.
- The permittee shall notify the District's Division of Invironmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.
 - As defined in Article II of District Ordinance 1250, significant new or increased discharge means: 3.
 - Any discharge from a new process or facility or a new source.
 - Any increase in volume or tale of discharge from an existing process or facility when the new long b. term average daily volume or rate of discharge will exceed the previous long term average by 20% or
 - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
 - e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article Il of District Ordinance 12559.
 - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

4112195100 - 2 Permit No.: 10 Page No.: January 01, 2012 Effective Date:

In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce eliminate and prevent occurrences of future such incidents.

Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;

There are no feasible alternatives to the bypass; and b.

In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

A violation of any term or condition of this permit.

A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION

- This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.
- Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

Permit No.: Page No.:

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Effective Date:

11 January 01, 2012

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the

RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper predentials and after execution of approximate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District Division of Environmental Compliance 10 East Grand Avenue St. Louis, Missouri 63147-2913

- Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.
- During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

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Page No.:

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Effective Date:

January 01, 2012

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

Grab Sampling Authorized A.1.

The permittee is authorized to perform self-monitoring at sampling points 004 and 005 using grab samples in lieu of the composite samples specified in General Condition I.A.3. The permittee shall certify on each quarterly selfmonitoring report in which grab sampling occurs, that the grab sample results accurately represent the pennittee's average daily discharge.

No Monitoring When Influenced by Storm Runoff A.2.

Sampling points 001, 002, 003, 004, and 005 may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

Sampling/Reporting Req for Ordinance Total A.3.

Analysis for Total Phenols is to be performed using FPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol

4 8-dinitro-2-methylphenol

pentachlorophenol

2-chlorophenol

2.4-dinitrophenol

phenol

2-hitrophenol

2,4,6-trichlorophenol

2.4-dichlorophenol 4-nitrophenol 2,4-dimethylphenol

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

Certification Requirement for Sample Points with less than Quarterly Sampling Frequency B.1.

At sampling point 004, permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, the permittee shall certify on the quarterly self-monitoring report that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

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Page No.: Effective Date:

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B.2. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

(1) For materials subject to licensing by the Nuclear Regulatory Commission: 5 curies Hydrogen-3

1 curie Carbon-14

1 curie for all other radioactive materials combined

(2) For all other materials:

1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordipence 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and lederal regulations for disposal of radioactive material by release into sanitary sewage.

C. SPECIAL BILLING REPORTING REQUIREMENTS

C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on sixty-eight (68) percent of the used water (on an annual basis) being discharged to the District from both account numbers 00208066 and 00208067. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION	N				
Company Name: ST LOUIS UNIVERSITY HOSPITAL					
Permit No: 4112195100-2 Effective Data 2412419					
Premise Address: 3635 & 3655 Vista Avenue	e 63110	Expiration Date: 12/3	31/2016		
B.A. and A	□(APR-JUNE)	-/			
Samples Collected By:	=(/#/K-5014E)	□(JULY-SEPT)	□(OCT-DEC)		
Analyses Performed By:					
PART II: ANALYTICAL RESULTS OF	SELF MONITORING				
MSD SAMPLE POINT REFERENCE NUMBERS	T				
DATES ON WHICH SAMPLES WERE COLLECTED □					
TIMES AT WHICH SAMPLES WERE COLLECTED					
PARAMETER LIMIT	RECORD SAMPLE TYPE	ES (G, C, M OR E) AND RESULTS BE			
EIVII	(G=grab, C=compos	ite, Memeasured flow, E=estimated flow)	LOW UNITS		
FLOW					
ansita is					

You must complete and sign the certification statements on the second page.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.

Please review your permit and PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.

A NO CHANGE IN WASTEWATER DISCHARGE AT SAMPLE POINTS WITH NO MONITORING REQUIRED

		h with a position in w	our permit, you are required to make the following
ŀ	For permit special conditions that waive mo	nitoring at any sample point(s) specified in yo	our permit, you are required to make the following
	certification for each report in which monitor	ring is waived:	
- 1	Certification for Cach report in this	•	
- 1	discha	rge monitoring report, there has been no chair	nge in the character of the wastes discharged at
- 1	I certify, since the last discha	ige monitoring report, there was a said	
-	sample point 004.		
			MACE.
_	CDAR IN LIEU OF COMPOSITE RE	PRESENTS WASTEWATER DISCHA	\KGE
D			
		" " " " " of composite t	sampling at any sample point(s), you are required s occur:
	For permit special conditions that authorize	grab sample collection in fleu of composite	samplify at any sample point(e), yer are
	to make the following certification for each	report in which such authorized grab sample:	s occur:
	to make the following continuous		
	er the each comple root	ite in this report accurately represent our ave	erage daily discharge at sample points 004 & 005.
	I certify the grab sample rest	IIIS III (IIIS report accurately 1-1-4-1	
		· · · · · · · · · · · · · · · · · · ·	
		ATION STATEMENTS	
PA	ARTIV: GENERAL CERTIFIC	AIIONSIAILMLING	
-	DISCHARGE MONITORING REPO	RT CERTIFICATION	
В	DISCHARGE WORLD ALL S		
	All permittees must sign and complete	the information per ow:	
	The position of the same of th		w was delen in cocordance with
	t and the conder populty of Law that this doc	ument and all attac hme nts were pre pared un	der my direction or supervision in accordance with intermation submitted. Based on my inquiry of the
	I Centry under penalty of Law that and de-	personnel properly gather and evaluate the	information submitted. Based on my inquiry of the athering the information, the information submitted
	a system designed to assure trial qualified	to a these persons discribly responsible for a	athering the information, the information submitted
	person or persons who manage the syste	m, or those persons directly responding to	pathering the information, the information submitted there are significant penalties for submitting false
	I I I I I I I I I I I I I I I I I I I	THE ACCIDAGE AND COMMISSION ASSESSMENT OF	nat there are significant penalties for submitting false
		and imprisonment for chrowing Modalions.	
	is, to the best of my later possibility of fin	S SIIO HID ISOUTHER TO KIND IN ISOUTH IS A PROPERTY OF	
	is, to the best of my knowledge and believe information, including the possibility of fin	3 Stid tith isolities in 101 kings and 3 secure.	
	information, including the possibility of tin	The state of the s	
	information, including the possibility of tin		
	information, including the possibility of fine Print or type name of signing official:		
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	information, including the possibility of tin	Telepho	ne:
	Print or type name of signing official: Title:	Telepho	ne:
	information, including the possibility of the Print or type name of signing official: Title: Signature:	Telepho	
	Print or type name of signing official: Title:	Telepho	ne:

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:					
FIRST TIME PERMIT RENEWAL	Prepared by: S. Rehmer Reviewed by: V. Men Tolk			10/26/20	
				11-9-1	
PERMIT NO: <u>4112195100-2</u> EF	/EDSITY HOSPITAL	EXPIRATION	ON DAT	E: <u>12/31</u>	<u>/2016</u>
PREMISE ADDRESS: 3635 - 3655					
RELATED ACCOUNT NUMBERS:	<u>41121950-01, 90091536-01</u>				
SIC NUMBERS: <u>8062</u> , <u>8063</u>					
TYPE OF OPERATION: Hospital &					
TOTAL NUMBER OF SAMPLING P					
	5 CATEGORICAL C	OMBINE			
CATEGORICAL INDUSTRY? YES	□ NO 🛛				
If Yes, 40 CFR Subpart		Р	SES 🗌	PSNS [7
40 CFR Subpart	•		SES 🗌		
EXTRA STRENGTH SURCHARGE?	YES NO If Yes, BOD				
RETURN FACTOR? YES NO If Yes, Acct #(s) 208066, 208067 RF 0.68					
SPECIAL CONDITIONS REQUIRED	? YES ⊠ NO □	/		1 (1 <u>0.</u>	<u>00</u>
All SMR start dates begin at start of calendar quarter: Same as/containing permit effective date following permit effective date					
SMR General Cert. B attached to firs					NI
	CUMENTS ATTACHED		YES	NO	N/A
Permit Preparation Checklist:					
"Special Certs & Gen Rpts for Spec C	Conditions not tied to Specific SPs	" Sheet:			
Production-based Standards Calc. Sh					
Mass-based Standards Calc. Sheets					
Most Strict Limits Sheets (for Samplin					\boxtimes
Combined Wastestream Formula She					
Other:					
	otations of any significant change mple authorized to SP004 + 005; 03, 005	s from last	permit):		

REV 06/2011

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PERMIT NO: 4112195100-2

SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS

#	#	[none]	#	[none]	NO 🗌 N/A (No Certs) 🛚
#	#	[none]	#	[none]	
#	#	[none]	#	[none]	? YES□
#	#	[<u>none</u>]	#	[none]	ple point (<u>001</u>)′
#	#	[none]	#	loone	associated with first permit sample point $(\underline{001})$?
# D.3	#	[none]	#	[none]	ssociated with f
# E.18	#	[none]	# <u>Rad.discharge</u> <u>report</u>	once 3 mo	Are all the <u>SMR certifications</u> listed above as
# E.1	#	[none]	#	[none]	MR certification
Special Condition:	List any related SMR certifications:	SMR certification frequency:	List any related General Reports:	General Report frequency:	Are all the SI

Check here if there are no non-SP-specific Special Conditions:

Any significant changes? YES 🖾 NO 🗌 Explain: Added D3 total phenols

	Dais, GPD	Basis for Flow Rate: IUQ	for Flow Rate: IUQ				
	or exclusion of std polls)		Basis for limitation	Monitoring	Basis for monitoring freq.	toring freg.	
GENERAL:			11	frequency	(std for vol, etc; innocuous, low flow, etc)	ocuous, low flow, et	()
FLOW	Standard	n/a		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
BOD	Standard	e/u		Olice 3 mo	Standard		
COD	Standard	e/u		once 3 mo	Standard + volume	e	
O&G	Standard	12550		once 3 mo	Standard + volume	e	
H.	Standard	1255		once 3 mo	Kitchen waste plus lab data presence	s lab data preser	100
Temp	Standard	42550		once 3 mo	Standard + volume	9	
TSS	Standard	80071		once 3 mo	Standard + volume	9	
Ord. TTO	Standard	n/a		once 3 mo	Standard + volume	9	
Total phenol	SP. added for hospitals	12559		once/year	Standard		
	o ; agreed for nospitals	12559		once 3 mo	Typical for hospitals	S	
PRIORITY/CATEGORICAL:	RICAL:						
				-			
Silver (total)	Included for x-ray waste	12559		LIOUE)			
				once 3 mo	Lab data shows presence	esence	
				[none]			
				inone.			
				[none]			
				[none]			
				[none]			
				[none]			
				[none]			
				[none]			
Special Condition:	# D.10	##	#	#	#	=	7
List related SMR certs:	#	#	#	#	: #		# 7
	lericy.	[none] [none]	I	-	[none]	luoue	# [none]
List related General Rpts: General Rpt frequency:	Rpts: # # # # # # # # # # # # # # # # # # #	# [none]	# 	#	#	#	#
s this an Ord or Comb s	Is this an Ord or Comb SD w/man for TTO		-			none	none

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PERMIT NO: 4112195100-2

TNICO	SAMES INC. BOINT BEFERENCE NUMBER: 002	TYPE: Ord ⊠ Cat □ Comb □	Comb			
Wastewater Compor	칪	ater				
Flow Rate: 56.850	Units: GPD Basis	for Flow Kate: IOC		Basis for monitoring freq.	red.	Any
Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR, etc)	frequency	(std for vol, etc; innocuous, low flow, etc)	w flow, etc)	OK7
				Ottoback		
GENERAL	Ctondord	n/a	once 3 mo	Standard		E
FLOW	Stational	n/a	once 3 mo	Standard + volume		
BOD	Standard	n/a	once 3 mo	Standard + volume]
COD	Standard	12559	once 3 mo	Lab data presence	Andrew Control of the	
O&G	Standard	12559	once 3 mo	Standard + volume		
Hd	Standard	12550	once 3 mo	Standard + volume		
Temp	Standard	1,5000	once 3 mo	Standard + volume		1
TSS	Standard	40550	once/vear	Standard		
Ord. TTO	Standard	80071	once 3 mo	Typical for hospitals		
Total phenol	SP; added for hospitals	8cc71	2000			
PRIORITY/CATEGORICAL:	ORICAL:		[none]			
	Chack year of a first	12559	once 3 mo	Lab data shows presence	9	
Silver (total)	Included for X-ray waste		[none]			
			[none]][-
			[none]][
			[none]			
			Inone][-]
			[none]			
			[000]			
			Inone			
				-	=	
Special C	Special Condition: # <u>D.10</u> #	##	#	#	# 	
List related SMR certs:	MR certs: # # #	#	euou] #	# [none] #	u] # [auou]	[none]
List related General Rpts:	# 	#	# [none] #	# [auou] #	# [euou]	luoue
Is this an Ord or Cor	on for TTO and that has no	rOs on site? YES ☐ NO	If Yes, is SMR	NO 🔀 If Yes, is SMR <u>Gen Cert. A</u> attached at once/3 mo freq.? YES	ce/3 mo freq.? YE	S.

Any significant changes? YES NO TEXPlain: Added D.3 total phenols

TYPE: Ord ⊠ Cat □ Comb □

Wastewater Components: Sanitary, Hosp waste, Storm water Flow Rate: 8,450 Units: GPD Basis for F

SAMPLING POINT REFERENCE NUMBER: 003

DOT 0.000	OLD GILLO	Basis	_	9				
rointains	basis for inclusion (or exclusion of std polls)	l polls)	Basis for limitation (Ord 12559, CFR . etc)		Monitoring	Basis for monitoring freq.	Basis for monitoring freq.	
GENERAL:					nednency	See 101 See, IIII	ocuous, iow riow, e	OK2
FLOW	Standard		n/a	000	once 3 mo	Chandaga		
ВОД	Standard		n/a	2000	once 3 mo	Standard + volume		
COD	Standard		n/a	Sign	once 3 mo	Standard + volume	D 0	
O&G	Standard		12559	200	once 3 mo	l ah data procepto	و ی	
pH	Standard		12559		once 3 mo	Standard + volume	D) G	
Temp	Standard		12559	200	once 3 mo	Standard + volume	<u>n</u>	
TSS	Standard		n/a	200	once 3 mo	Standard + volume	ב פ	
Ord. TTO	Standard		12559	Suc	once/vear	Standard volum	<u>D</u>	
i otal phenol	SP; added for hospitals	als	12559	once	once 3 mo	Typical for hospitals	Se	
PRIORITY/CATEGORICAL	3 CA ·							
				[none	[e]			
				[none]	[e]			
				[none]	e			
				Inone	ē			
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				[none]	[e]	***************************************		
				[none	[\text{\tin}\text{\tex{\tex			
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				[none]	e	The state of the s		
				[none]	[-]			
Special Condition:	dition: # <u>D.10</u>	#	#	#	#	#	#	#
List related SMR certs: SMR cert frequency:	certs: # [none]	# [none]	#	#	# [none]	# [none]	# [none]	# [none]
List related General Rpts: General Rpt frequency:	Rpts: # [none]	# [uoue]	#	# [none]	# [none]	# [none]	# [none]	#
ls this an Ord or Comb SP w/mon for TTO <u>and</u> that has no TOs on site? YES	SP w/mon for TTO and	that has no TOs	on site? YES	NO If Ye	s, is SMR Gen	NO If Yes, is SMR Gen Cert. A attached at once/3 mo fren 2 YES	at once/3 mo fred) VEC
Any significant changes? YES	ss? YES NO		4 D 3 total phone	<u>.</u>] !
20.00.00			Explain: Added D.3 total phenois	SIC				

Any significant changes? YES NO Explain: Added D.1 grabs

PERMIT NO: 4112195100-2

TYPE: Ord ⊠ Cat □ Comb □

Any OK?

 \boxtimes

Any significant changes? YES 🖾 NO 🗌 Explain: Added D.3 total phenols; Added D.1 grabs

GENERAL: FLOW BOD COD Standard COD Standard Standard Standard O&G Standard Standard O&G Standard		Dasis for Flow Male. IOC			
V V	d polls)	Basis for limitation (Ord 12559, CFR, etc)	Monitoring	Basis for monitoring freq.	req.
A			chaciicy	to to the total and the total	w now, etc)
		n/a	0000	Ctondond	
		n/a	0000	Startuald	
		n/a	0000 0000	Standard + Volume	
		12559	OLICE O LITO	Standard + volume	
		12550	ouce 3 mo	Lab data presence	
Temp		12533	once 3 mo	Standard + volume	
		12338	once 3 mo	Standard + volume	
Ord. TTO Standard		11/2	once 3 mo	Standard + volume	
C		12559	once/year	Standard	
	als	12559	once 3 mo	Typical for hospitals	
TOUR LOOK OF THE COURT OF THE C					
			[none]		
			[none]		
		***************************************	[none]		
			[none]		
Special Condition: # <u>D.10</u>	# D.1	#	#	#	*
List related SMR certs: #	# <u>D</u> once 3 mo	<u>ou]</u> # #	#	luone	
List related General Rpts: #	# [none]	# # <u>[none]</u>	# [none]	# [none]	# [] g

PERMIT PREPARATION CHECKLIST - PART 1 (Fact Sheet Attachment)

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Permit No.: 4112195100-2

Effective Date: 1/1/2012

Prepared by: S. Rehmer

Date: 10/26/2011

AN:	REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT APPLIES.	LICATION.	
ALTECONOM 4	CONTRACTOR OF THE DATABASE PRIOR TO DEVELOPING THE DRAF	T PERMIT.	
١.	The time down of the holder	Yes 🔯	No 🗍
21111	If no, add แนะผลสายและ และเกาะแ นนนานแนนแนนแนนแนนแนนแนนแนนแนนแนนแนนแนนแน		
2.	If yes, date last certified:	Yes 🗍	No 🕅
	If yes, Special Condition F.2 applies.		
3.	Does user's premise have more than one MSD account?	(V/87/87/87/87/87/87/87/87/87/87/87/87/87/	WWW.W.W.W.W
Ο.	If yes, were all account numbers correctly listed (including occupant #s)?	Yes 🛛	No 🗌
	If no, have account numbers been corrected in database before proceeding?	Yes 🛛	No 🗌
4.	Does user have a Return Factor (RF) other than 1.00 for any account?	Yes □	No 🗌
٦.	If yes, list acct no., RF and date last updated:	Yes 🛛	No 🔲
	Acct <u>00208066</u> RF <u>0.68</u> Updated <u>4/2/2001</u>		
	Acct 00208067 RF 0.68		
	If yes, Special Condition F.1 applies.		
<i>5</i> .	If yes, Special Condition F.1 applies. Does user discharge water from a source not included in the MSD Billing system? If yes, Special Condition F.3 & General Papert "Discharge Value of Paris III."	umannana <u>an</u> a	GONNANIA ANTAN
M.M.M.M.	If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply	Yes 🗌	No 🛛
6.	If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow?	anananana.	uuuuuu
	PIMS on component flows at each SP, total SP flows and total premise flow?	Yes 🛛	No 🔲
n nemma	in ito, explain		
7.	Has user been granted any variances from ordinance limitations?	vananan nanga Yes □	No 🖂
	If yes, Application Date:	.00 🗀	140 🖂
	Approval Date:, or approved as part of permit issuance? Yes If yes, Parameter(s) at SP(s)		
	If yes, Parameter(s) at SP(s)		
#.#/#/#/. 8.	If yes, Special Condition C.4 applies. Does user discharge any radioactive materials?	er aller	***************************************
0.	If ves. Special Condition E 18 & Congret "Dediction Discussion Dis	Yes 🛛	No 🗍
<i>443.113</i> 9 .	If yes, Special Condition E.18 & General Report "Radiation Discharge" apply. Do all of the user's active connections, to MSD sewers, have identified SPs?	THUMAN W <u>A</u> WA	CHERRE
٠.	If no, explain:	Yes 🛛	No 🗍
	If no, is documentation sufficient to use Special Condition		_
	E.5 ☐ "Sampling Not Required at Connections with NO SP and with SP on parts"	Yes 🔲	No 🗌
	E.O L. Sampling Not Required at Connection with NO Sp on it"		
	E./ Sampling Not Required at Connection with SP on only part of it" or		
	⊏.o ☐ Sampling Not Required at Permittee with No SP"?		
	If no, is compliance schedule necessary to obtain documentation?	Yes □ I	No [7
g H H/H/H	il yes, Special Condition G.1 is necessary	res 📋 i	40 L
10.	Does premise require use of "upstream/downstream" sampling?	Yes 🔲 1	
	If yes, Upstream SP # & Downstream SP #	163 L 1	40 M
UMCHADA	If yes, Special Conditions D.11 and E.9 apply.		
11.	Are there any inactive connections to MSD sewers?	Yes 🔲 1	No 🕅
111 111 111 111 111 111 11 11 11 11 11	If yes, Special Condition E10 applies.		10 23
12.	Have you verified, in PIMS, the SP location descriptions are complete and adequate? Have you verified, in PIMS, the SP location descriptions are complete and adequate? Have you verified, in PIMS, the discharge components, process descriptions, and related.	Yes 🕅 1	vo 🗍
13.		CUMUMUTUU.	WWWW W
8 11 W M	nows at all SPs, are complete and adequate?	Yes 🛛 N	No \square
14.	Does user have any discharges subject to NPDES permitting regulations?	Yes 🗍 N	W.H H /H /H
	If yes, list MSD points & corresponding NPDES points:	103 🗀 1	40 🖂
MANUALI AF	If yes, Special Condition E.14 applies.		
15.	Do any SPs convey stormwater in addition to regulated wastewater?	Yes 🛛 N	lo 🖂
	If yes, list points: 001,002,003,004,005 and note on P&LD sheets.		
#### 16.	If yes, Special Condition D.10 applies. Are any Special resident a production of the contract of the contrac	CHRUM WAS WAS SO SO SO SO	e 10 or an m
10.	Are any SPS Dry Justined in PIMS?	Yes 🔲 N	lo 🛛
	If yes, list points and note on P&LD sheets.		
にとは あた	If yes, no self-monitoring is required, and Special Condition E.3 applies.	マルス・ス・ス・コー・ロー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファ	777 72 × 2

(101/00/00/00/00)	Are there SPs where user discharges only r	non-process wastewater	?	Yes 🛛 No	Ш
17.	If yes, does no self-monitoring requ	irement / Special Condit	tion E.3 apply?	Yes 🗌 No	\boxtimes
	If yes, list points and note on Are there SPs with infrequent discharges the	THE SHEETS.	and the real and an analytic and an area	CHACHALU WALAM	
18.	Are there SPs with infrequent discharges th	at require coordination v	with the user for MOD to	Yes 🗌 No	\square
	collect samples?			res 🔲 No	
	If yes, list points: and note o				
	If yes, Special Condition D.14 appli Is documentation adequate to allow use of	CS. Www.w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/	MINING MI	Yes 🖾 No	
19.	Is documentation adequate to allow use of	grab samples in lieu of c	composites at any ors:	Tes 🖂 No	لـا
10.	If yes, list points <u>004,005</u> and note	on P&LD sheets.			
				THE THE THE THE THE THE THE THE THE	CH WH
unana	If yes, Special Condition D.1 applie Are there SPs with self-monitoring requiren	nents but at less than a	guarterly frequency, for	w. w. w. w	
<i>20.</i>	Are there SPS with Sell-monitoring requirem	icino, but at loco allan a	quantity	Yes 🛛 No	П
	all parameters? If yes, list points 004 and note on F	ORI D sheets		,00 🔼	
	If yes, Special Condition E.4 applie Can local limits TTO be removed from mor	is. Agamayananananananananananananananananan	an programment anna anna anna anna anna anna anna a	www.www.www.ww Yes ⊠ No	
<i>nunuu</i> 21.	Can local limits TTO be removed from mor	itoring at any ordinance	SMS?	res 🔼 No	لسار
Z. 1.	If yes, list points 004 and explain o	n Palu sneets.	nitoring?	-	~~~
	If you does TTO also need to be fi	emovea trotti iviou s iiiv	Intomig:	Yes 🗌 No	\boxtimes
	If yes, discuss with inspect	tor (name:) and explain why it had		
	be an experienced by MCD:			7/20/20/20/20/20/20/20/20/20/20/20/20/20/	0 N N N
#######	Does user have a history of compliance pro-	oblems at this or a previ	ous location?	Yes 🗌 No	\boxtimes
22.	If yes, explain problems:	•			
	ii yes, explain problems.	auired?		Yes 🔲 No	οП
	If yes, is a compliance schedule re	iquireu :			لسا
	If yes, Special Condition G	o.1 applies.		Ves 🗆 Ne	\Box
	Is supporting documentation	on attached?			o 🏳
	If yes, are any other special requir	ements required?		Yes ∐ No	o 🗌
	Evolain:		1887 1887 1888 1888 1888 1888 1888 1888 1888 1888 1888 1888 1888 1888 1888 1888	# (## (## (## (## (## (## (## (## (## ((M) M (M) M
10/10/10/10/1	Is user required to monitor for Total Pheno	ils at an ordinance SP?	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Yes 🛛 No	0 🗌
23.	If yes, does Special Condition D.3	for Total Phenols monit	oring options apply?	Yes 🛛 No	
				amaninananananananan	MINITED IN
24.	Lies was chosen to employ continuous mo	nitorina techniques for:		., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	123
۷4.	LIO If and link mainta SC F 20	& Gen Rnt "Cont-Mon D	H EXCUISIONS appry.		0 🔯
		Y CON MIT TO ONT-MORE	PHILI EXCUISIONS ADDIV.		o 🔯
	temp? If yes, list points SC E.30	8 Con Pot "Cont-Mon I	FL Excursions" apply.	Yes 🔲 N	o 🛛
	LEL? If yes, list points . SC E.31		agua agua agua agua agua agua agua agua	Yes □ N	
25.	Temp? If yes, list points SC E.30 LEL? If yes, list points SC E.31 Does the company perform any processes If yes, Special Condition E.33 & G	s for which summaries o	Activity Summary" anniv	162 14	0 🖂
20.	If yes, Special Condition E.33 & G	ieneral Report Process		Yes N	
26.	Are special billing conditions, other than the	ne standard Special Con	iditions, needed?	Yes 🔲 N	0 🖂
20.	If yes, describe:				
	If yes, Special Condition F.4 appli	es.			
	Does General Report "Discharge	Volume for Billing" apply	v ?	Yes 🗌 N	lo 🗌
	Description No	n_Standard" anniV/		Yes 🔲 N	lo 🗌
	Are any Special Conditions, other than the		180 180 180 180 180 180 180 180 180 180		THE WATER
27.	Are any Special Conditions, other than the	e standard special condi	tions, required?	Yes 🔲 N	10 🖂
21.	If yes, explain:		•		
	Which Special Condition applies?	•			
	Is supporting documentation attack	hed?		Yes 🗌 N	lo 🗌
	is supporting documentation attac	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	If no, explain:	Standard" apply?		Yes ☐ N	ло П
	Does General Report "Custom N	OII-Standard appry:	(M) M M M M M M M M M M M M M M M M M M	W W W W W W W W W W W W W	W/W/AF/AF
######################################	Is user a hauled waste industry, discharge	ing its wastewater at the	Hauled Waste Station?		1 0 ⊠
28.	If yes, have permit title, cover page	ne language & general o	conditions been modified?	Yes 🗌 N	√ 0
	If yes, Special Conditions B.9, D.	12 H 1 and H 2 annly			
	If yes, Special Conditions B.9, D.		(M)M(R)R M M M)M(M)M(M)M(M)M(M)M(M)M(M)M(M)M(M)M	Yes 🗍 N	
29.	Is user classified as a Categorical Industr	ial User (CIU)?		162 [] 1	40 KZ
	If yes, complete part 2 of checklis	st. If no, STOP here.	(CAO AO A	(/M/M/M/M/M/M/M/M/M/M/M/M/M/M/M/	M/M/M/M
MANAGA .					
Lis	all the Special Conditions from Part 1 that a	ire applicable to this per	mit.		
Lis	those that are specific to a sampling point of	on that sampling point's I	ract sneet, too.	De" fact sheet	too
Lis	all the Special Conditions from Part 1 that a those that are specific to a sampling point of those that are not specific to a sampling po	int on the "Special Cond	illions 140t Tied to opecine of	3 1401 011001,	
			Sampling Point #		
	General Report	Special Condition #	Camping I Onk II		
	www	F.1	N/A		
	Rad.Discharge	E.18	N/A		
	Nau. Discharge	D.10	001,002,003,004,005		
		<u>D.1</u>	004,005		
		<u>E.4</u>	004		
		E.18 D.10 D.1 E.4 D.3			
		and the second s			
		where the same and a same a same and a same a same and a same and a same and a same a same and a same and a sa			
		mountain and a second			
		2			
DE	V 07/2011	4			

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:					
FIRST TIME PERMIT Prepare RENEWAL Review	red by: S. Rehmer wed by: N. M. TZA			11/8/20	
				n-10-	
	IVE DATE: <u>2/1/2012</u>		ION DAT	E: <u>1/31/</u>	<u> 2017</u>
COMPANY NAME: ST LOUIS UNIVERSIT		ENTER			
PREMISE ADDRESS: 1402 S. Grand Blvc					
RELATED ACCT NUMBERS: 4112481000) (209617); 1020547300 <u>(</u>	208052); <u>9</u>	0112723	01 (464	<u>430)</u>
SIC NUMBERS: <u>8011, 8221, 8733</u>					
TYPE OF OPERATION: Institution for heal	th sciences training				
TOTAL NUMBER OF SAMPLING POINTS	: 3 or NO SAMPLING PO	INT 🔲			
NUMBER OF: ORDINANCE 3					
CATEGORICAL INDUSTRY? YES ☐ N					
If Yes, 40 CFR Subpart			PSES 🗌	PSNS	П
40 CFR Subpart			PSES 🗌		
EXTRA STRENGTH SURCHARGE? YES	☐ NO ☑ If Yes, BOD _	COI	D	TSS	
MADE THE STATE OF	☑ NO ☐ If Yes, Acct #(s				
SPECIAL CONDITIONS REQUIRED? YES	⊠ NO □	,		7 tt <u>0.c</u>	20, 0.00
All SMR start dates begin at start of calenda	ar quarter: ☐ same as/ ☐ following	containing permit effe	permit et	fective of	date
SMR General Cert. B attached to first permi					ΝП
SUPPORTING DOCUME Pollutant & Limitations Documentation Shee	NTS ATTACHED	•	YES	NO	N/A
Permit Preparation Checklist:	:15.		\boxtimes		
			\boxtimes		
"Special Certs & Gen Rpts for Spec Condition			\boxtimes		
Production-based Standards Calc. Sheets (f)			
Mass-based Standards Calc. Sheets (for Sa					\boxtimes
Most Strict Limits Sheets (for Sampling Point					\boxtimes
Combined Wastestream Formula Sheets (for	Sampling Points)				\boxtimes
Other:					
COMMENTS (Include notation: Added total phenol sampling at SP001 & 003	s of any significant change ; added grab-auth sampli	es from las	st permit): 02.		

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SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS

Special Condition:	#	# E.18	# D.3	#	#	#	#	#
List any related SMR certifications:	#	#	#	#	#	#	#	#
SMR certification frequency:	luoue	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List any related General Reports:	#	# Rad.Discharge	#	#	#	#	#	#
General Report frequency:	[none]	once 3 mo	[none]	[none]	[none]	[none]	[none]	[none]
Are all the SI	MR certifi <u>catio</u>	Are all the SMR certifications listed above as	sociated with fi	irst permit sam	associated with first permit sample point $(\underline{001})$?	YES	NO 🗌 N/A (No Certs) 🛚	No Certs) 🛚

Check here if there are no non-SP-specific Special Conditions:

SAMPLING POINT REFERENCE NUMBER: 001

Any significant changes? YES 🖾 NO 🗌 Explain: Added total phenol sampling.

Prolitating Passis for Inclusion Passis for Prolitating Passis for Inclusion Pass	resignated compo	wastewater Components: Sanitary, NCCW, Process WW	W, Process WV	_	mic				
Basis for limitation Monitoring Basis for monitoring freq. Cord 12559, CFRetc) frequency (std for vol, etc; innocuous, low flow, etc) Ind	Pilow Rate: 57,560	Units: GPD	Basi	. —	g				
17559	rollutants	Basis for inclusion (or exclusion of std	polls)	Basis for limit			Basis for monit	toring freq.	
12559	GENERAL:			Whiten.	1		(sta for voi, etc; inno	ocuous, low flow, etc	_
12559	FLOW	Standard		e/u		ŀ	-		
12559	BOD	Standard		0/0	ouce		Standard		
12559 Once 3 mo Standard + volume 12559 Once 3 mo Standard + volume + data results 12559 Once 3 mo Standard + volume Once 3 mo KP + data presence Inone Inon	COD	Standard		11/0	once		Standard + volum	9	
12559 Once 3 mo Standard + volume + data results 12559 Once 3 mo Standard + volume 12559 Once 3 mo Standard + volume 12559 Once 3 mo Standard + volume 12559 Once 3 mo KP + data presence	O&G	Standard		40110	ouce		Standard + volum	9	
12559 Once 3 mo Standard + volume 12559 Once 3 mo Standard + volume 12559 Once 3 mo Standard + volume 12559 Once 3 mo KP + data presence 12559 Once 3 mo KP + some lab data presence 100ne	Ho	Standard		6007	ouce		Standard + volum	e + data results	
12559 once 3 mo Standard + volume 12559 once 3 mo Standard + volume 12559 once 3 mo KP + data presence 12559 once 3 mo KP + some lab data presence Inone	Temp	Otondond		12559	ouce		Standard + volum	9	
12559	Tec	Standard		12559	ouce		Standard + volume	9	
12559 Once/year Standard Once 3 mo		Standard		n/a	once		Standard + volum		
12559 Once 3 mo KP + data presence Inone Ino	Ora. Fig.	Standard		12559	/ouce		Standard Volume		
Tone Tone Tone	l otal Phenol	KP + some data pres	ence	12559	Once	Ť	(D + data process	4	
Inone					3 .		v data present	3	•
12559 Once 3 mo	PRIORITY/CATEGO	RICAL .			luoue				
12559 Once 3 mo	Silver (total)	KD X-row works							
Inone Inone	(initial)	INT, Ariay waste		12559	once		(P + some lab dat	la presence	
flone flone floor floo					[none			20100	
Inone Inone					Inone				
Inone					Inone				
Inone					non				
Inone					i anoug				
flone flone									
Inone									
[none]					none				
[none]					[none]				
# # # # # # # # # # # # # # # # # # #					[none				
# # # # # # # # # # # # # # # # # # #	Special Con		#	#	#	#	#	#	
#	List related SMR		*	=					*
# # # # # # # # # # # # # # # # # # #	SMR cert frequ	ŧ			#	# [none]	# [none]	#	
on site? YES NO If Yes is saw of the control of	List related General General Rpt frequ	#			# [none]	#		# [none]	#
	Is this an Ord or Comb §	SP w/mon for TTO and	that has no TOs	on site? YES	NO N	SMD Con			

PERMIT NO: 4112193600-3

TYPE: Ord ⊠ Cat □ Comb □

SAMPLING POINT R	SAMPLING POINT REFERENCE NUMBER: 002		TYPE: Ord ⊠ Cat ☐ Comb	Comb				
Wastewater Components: Sanitary, Storm	ents: Sanitary, Storm		Basis for Flow Rate: IUQ					•
Flow Rate: 700	Units. GPD	a a	Rasis for limitation	Monitoring		Basis for monitoring fred.	ng freq.	£ 6
Pollutants	(or exclusion of std polls)		(Ord 12559, CFR, etc)	frequency		/ol, etc; innocuo	(std for vol, etc; innocuous, low flow, etc)	5
GENERAL:				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Standard	lq		
FLOW	Standard	n/a	o .	Olice 3 mo	OV WO	l ow volume, nature of effluent	of effluent	\boxtimes
BOD	Standard	n/a	a l	ouce o mo	- Cow vo	l ow volume, nature of effluent	of effluent	\boxtimes
COD	Standard	<u>c</u>	n/a	Olice o IIIo	2 × × ×	low volume nature of effluent	of effluent	
086	Standard		12559	Ouce o mo	LOW VO	l ow volume, nature of effluent	of effluent	
Ha	Standard		12559	Ouce o mo	ov wo	l ow volume, nature of effluent	of effluent	
Temp	Standard		12559	once o mo	OV WO	low volume, nature of effluent	of effluent	
TSS	Standard	2 7	n/a 40550	Once o mo	Standard	ard		
Ord. TTO	Standard		6007	Oliver) year				
				none				
PRIORITY/CATEGORICAL	RICAL			[none]				
				[none]				
				2000				
				alol.				
				noue				
				luoue				
				[none]				J
				[none]	·			
				[none]				1
				[none]				
				[none]				J
Special Condition:	ondition: # D.10	# D.1	# E.4 #	#			#	#
				*		#	#	#
List related SMR certs: SMR cert frequency:	R certs: # [none]	# D once 6 mo	# A mo	<u>[luoue]</u>	[none]	[noue]	luoue	[none]
List related General Rpts: General Rpt frequency:	ral Rpts: # [none]	#	# [none]	# [auou]	[none]	[none]	#	#
Is this an Ord or Com	Is this an Ord or Comb SP w/mon for TTO and that has no	at has no TOs	TOs on site? YES ☐ NC	O⊠ If Yes, is \$	SMR Gen Cert	<u>. A</u> attached at	NO 🖂 If Yes, is SMR <u>Gen Cert. A</u> attached at once/3 mo freq.? YES 📙	∵ YES □
Any significant char	Any significant changes? YES ⊠ NO □ E	xplain: Adde	Explain: Added D.1 (grab-auth) option.	tion.				

Ω
total
Added
Explain:
□ 9
\boxtimes
YES 🛚
changes?
ficant

Wastewater Compo Flow Rate: 32,374	Wastewater Components: Sanitary, NCCW, Process WW. Flow Rate: 32,374 Units: GPD Basis	R: 003 Process WW, Basis	IYPE: Ord ⊠ Cat ☐ Comb [<u>V. Boiler BD, Regen/Reject, Storm</u> s for Flow Rate: IUQ	Sat					
Pollutants	Basis for inclusion (or exclusion of std polls)		Basis for limitation	5 7	Monitoring	Basis for mon	Basis for monitoring freq.		2
GENERAL:		(11	treduency	ency	(std for vol, etc; inn	locuous, low flow, et		Š
FLOW	Standard		n/a	6 0000	2 22 6	Otendard			
ВОБ	Standard		n/a	Olice 3 mo	OIII O	Standard			
COD	Standard		n/a	Olice 3 mo	O IIIO	Standard + volume	ne		\neg
O&G	Standard		12559	Olice 3 IIIO	2 110	Standard + volume	ne		\neg
H	Standard		12559	Olice 3 IIIO	2 2 2	Standard + Volume + data results	ne + data results		- 1
Temp	Standard		12559	olice,	3 200	Standard + volume	ne		- 1
TSS	Standard		n/a	olice,	01110	Standard + volume	Je		
Ord. TTO	Standard		12559	once 3 mc	S mo	Standard + volume	Je		-
Total Phenol	KP + some data presence	es	12559	once 3 mo	3 20	KP + data presence			ŀ
				[none]	2	incord man	2		
PRIORITY/CATEGORICAL	ORICAL:							_	٦
Silver (total)	KP, X-ray waste		12559	5 0000	0	- 1-1	. 1		
Cadmium	Included, KP		12559	S S S S S S S S S S S S S S S S S S S	0110	AP + some lab data presence	ata presence		,
Chromium	Included, KP		12559	once 3 mo	ОШ	KP, trace loss to sewer	sewer		
Copper	Included, KP		1250	once 3 mo	OE S	KP, trace loss to sewer	sewer		<u></u>
Lead	Included KP		12009	once 3 mo	шо	KP, trace loss to sewer	sewer		Ļ
Mercury	Included KD		12339	once 3 mo	mo	KP, trace loss to sewer	sewer		_
Nickel	Included KD		6027	once 3 mo	mo	KP, trace loss to sewer	sewer		
Zinc	Political KD		12559	once 3	3 mo	KP, trace loss to sewer	sewer		L,
Cvanide (a)	molided, Nr		12559	once 3		KP, trace loss to sewer	sewer		
cyamac (a)	ווכותמפת, עצ		12559	once 3 mo	mo	KP, trace loss to sewer	sewer		
				[none]					_
Special Condition:	101.10 # D.10	#	#		#	#			-
List related SMR certs: SMR cert frequency:	certs: #	# [none]	# [edou]	Cood					
			2	9 00	luoue	luoue	luone	[none]	
List related General Kpts: General Rpt frequency:	uency: # [none]	#	# [auou] #	[none]	# [none]	# [none]	# [none]	# [none]	
Is this an Ord or Comb	Is this an Ord or Comb SP w/mon for TTO <u>and</u> that has no TOs		on site? YES N	O ⊠ If Yes, i	s SMR Gen	NO 🖂 If Yes, is SMR <u>Gen Cert. A</u> attached at once/3 mo freq.? YES	at once/3 mo freg.	? YES	-
Any significant changes? YES ⊠	N 0	xplain: <u>Adde</u> c	Explain: Added total phenol sampling.	ing					
				;					

REV 06/2011

PERMIT PREPARATION CHECKLIST - PART 1 (Fact Sheet Attachment)

Company Name: ST LOUIS UNIVERSITY HEALTH SCIENCES CENTER Permit No.: 4112193600-3

Effective Date: 2/1/2012

Prepared by: S. REHMER

Date: <u>11/8/2011</u>

		11012011
A &	REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT AP	PLICATION
Al www.	NSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DR Are the correct SICs listed?	AET DEDMIT
1.	Are the correct SICs listed?	<u>net penintalatatatatatatatatatatatatatatatatatat</u>
	If no, adddelete.	Yes ⊠ No 🔲
2.	it no, add ระบบแนนแนน แนนแนนแนนแนนแนนแนนแนนแนนแนนแนนแนน	
	If yes, date last certified:	Yes ☐ No 🌣
	If ves. Special Condition E.2 applies	
#/#/#/	If yes, Special Condition F.2 applies.	
3.	Does user's premise have more than one MSD account?	Yes 🛛 No 🗌
	If yes, were all account numbers correctly listed (including occupant #s)?	
W/E 1.	U IIV. HOVE OULUIN HUMBER DOOD COMCOOLED HOLD - L. C	Yes ⊠ No □
4.	Does user have a Return Factor (RF) other than 1.00 for any account?	PRINCE PROPERTY OF THE PRINCE OF THE PRINCE PRINCE.
	If yes, list acct no., RF and date last updated:	Yes ⊠ No 🗌
		_
	Acct 00464430 BF 5.000 Opdated 10/3/2003	
	If yes, Special Condition F.1 applies. Does user discharge water from a source not included in the MSD Billing system? If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" and the MSD Billing system?	
<i>www.</i> 5.	non manufactura (Condition F. Lappiles.	
Э.	If you Special Countries To a countries and included in the MSD Billing system?	Yes 🔲 No 🔯
11 11 11 11	If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow?	162 🖂 140 🔯
6.	Have you established agreement among permit application, water consumption records and	NO N
	Plwis on component flows at each SP, total SP flows and total premise flow?	Yes 🛛 No 🗌
W MUMUM	If no, explain	
7.	Has user been granted any variances from ordinance limitations?	anaanaan ma <u>ma</u> naanaa <u>a a</u> n
	ir yes, Application Date:	Yes 🗌 No 🛛
	Approval Date: or approved as part of permit issuence? Yes	
	If yes, Parameter(s) at SP(s)	
. was charged a series of	If yes, Special Condition C.4 applies.	
8.	Does user discharge any radioactive motorials 2	MC-MC-mer and another
٠.	If yes, Special Condition E.18 & General Report "Radiation Discharge" apply. Do all of the user's active connections, to MSD sewers, have identified SPs?	Yes 🖾 No 🗌
<i>9.</i>	Do all of the user's active accommon the new transfer and accommon the new transfer apply.	
9 .	If no, explain:	Yes No 🗌
	······································	162 M 140 M
	If no, is documentation sufficient to use Special Condition	Voc 🗆 Na 🗆
	E.O L. Sampling Not Keguired at Connections with NO SD and with CD	Yes 🗌 No 🔲
	U camping Not required at Connection with NO SD on it	
	L. / L. Sampling Not Required at Connection with SP on only part of it!	
	L.o L. Sampling Not Required at Permittee with No Sp"?	
	IT no, is compliance schedule necessary to obtain documentation?	
H. W. W. M.	II ves Special Condition (2.1 is seenes	Yes 🗌 No 🔲
10.	Does premise require use of "upstream/downstream" sampling?	WARRANT WORKER WAR
	If yes, Upstream SP # & Downstream SP #	Yes 🗌 No 🔯
	If yes, Special Conditions D.11 and E.9 apply.	
11.	Are there any inactive connections to MSD sewers?	or the control of the
	Marian Charlet A 111 maria	Yes ☐ No 🏻
40	Tycs, opecial condition E to applies.	.00 🗀 110 🖂
12. 13.	Thave you verified, in PIMS, the SP location descriptions are complete and adequate?	Voc M. No. C
13.	Have you verified, in PIMS, the SP location descriptions are complete and adequate? Have you verified, in PIMS, the discharge components, process descriptions and related	Yes No 🗍
	flows at all SPs, are complete and adequate?	
14.	Does user have any discharges subject to NDD Community of the continuous and the continuo	Yes ⊠ No □
	Does user have any discharges subject to NPDES permitting regulations?	Yes ☐ No 🛛
	If yes, list MSD points & corresponding NPDES points:	.00 🗀 140 🖂
1 (41.41.41) 1 5	If yes, Special Condition E.14 applies.	
15.	Do any SPs convey stormwater in addition to regulated wastewater?	Voc M Na M
	if yes, list points: <u>001, 002, 003</u> and note on P&LD sheets	Yes ⊠ No 🗌
77.77.77.77	annung und was Special Condition D.10 applies.	
16.		
	If yes, list points and note on P&I D sheets	Yes 🗌 No 🛛
27 90 144 FT	If yes, no self-monitoring is required, and Special Condition E.3 applies.	
6 11 11. 11°.	e a a a a a a a a a a a a a a a a a a a	THE WILL SEE STATE STREET

ern mentenen	Are there SPs where user of	dicoborges only n	n-process wastewater?		Yes ⊠ N	
17.	Are there SPs where user	uiscriaryes <u>orny</u> m	rement / Special Condition	on E.3 apply?	Yes 🗌 N	o 🛛
	If yes, does no sen	-monitoring requi	Del Dishoots	1, ,		
	If yes, does no sen If yes, list points Are there SPs with infrequency	and note on	PALU SHEEIS.			H.H.H.H.
1111111111	Are there SPs with infreque	ent discharges tha	at require coordination wi	ith the user for MSD to	C N	- 121
18.	collect campies?				Yes 🗌 N	0 🔼
	If yes, list points: _	and note on	P&LD sheets.			
	If yes, Special Con	dition D 14 applie	is.		M	CHARLEN .
and the last time (1997)	If yes, Special Cor Is documentation adequate	W 18 18 18 18 18 18 18 18 18 18 18 18 18	and complete in lique of CO	mnosites at any SPs?	Yes 🛛 N	lo 🗌
19.	Is documentation adequate	e to allow use or g	rab samples in lieu or oc	impooned at any		
10.	If ves, list points 00	U2 and note on Po	KLD Sheets.			
	If yes, Special Cor Are there SPs with self-mo	ndition D.1 applies	3.	war a a wa a a a a a a a a a a a a a a a	CHENTHALIA MATARIA	
11 11 11 11 11 11 11 11 11 11 11 11 11	annununungun dan dan dan dan dan dan dan dan dan da		onte but at less than a d	warterly frequency, for		
<i>20.</i>	Are there SPs with self-mo	bultoring reduitem	ents, but at 1000 than a	,,	Yes 🛛 N	ωП
					100 23	.~
	If yes, list points 0	02 and note on Po	ALD sneets.			
	If yes, Special Cor	ndition E.4 applies		aran manan manan manan manan a	ommuniama arabamania	ninan <u>ar</u> i
ana an an an	nadiana na manana m	moved from moni	toring at any ordinance s	SPs?	Yes □ N	10 🔀
21.	If yes, list points	nielava bae	on P&I D sheets.			
	ii yes, iist poiitis_	alaa aaad ta ba re	moved from MSD's mon	itorina?	Yes 🔲 N	
	if yes, does 110 a	also need to be re	or (name:)	and explain why it had	163 []	10 L
	If yes, dis	cuss with inspect	or (name	and oxplaint		
	been mor	nitored by MSD:		(1.00 (100 (100 (100 (100 (100 (100 (100	CACTORINA NO NO DE LA PO	# # # # # # # # # # # # # # # # # # #
## ###	been mor Does user have a history	of compliance pro	blems at this or a previo	us location?	Yes 🗌 N	40 🔯
22.	Does user have a history	blomo:	•			
	II VAS AYDIZID UIU	wems.			Yes □ 1	No \square
	If yes, is a compli	ance schedule red	quirea !		.00	
	If ves. Sp	ecial Condition G	.1 applies.			
	le sunnor	ting documentation	n attached?			№ ∐
	If yes, are any oth	ar anagial require	ments required?		Yes 🔲 I	No L
						_
	Explain: Is user required to monitor		(N)	\$\\X\\X\\X\\X\\X\\X\\X\\X\\X\\X\\X\\X\\X	Yes 🔯 1	
10/10/10/10/1	le user required to monito	or for Total Phenol	s at an ordinance SP?			
23.	If use does Spec	ial Condition D.3	for Total Phenols monito	ring options apply?	Yes 🛛 🛚	No 📋
				MANAGARAN	OHOHOHOHOHOHOHOHOHOHOHO	namana.
					V []	No M
24.				I Excursions" apply.		No 🔯
						No 🛛
	pH? If yes, list points. Temp? If yes, list points.	SC E.30 (a Gen Rpt Continon 15	El Evourgione" apply	Yes 🗌	No 🛛
	IFI? If ves, list points	SC E.31 d	& Gen Rpt "Cont-Mon Lt		anananananan ananananan	
manana	Temp? If yes, list points LEL? If yes, list points Does the company perior If yes, Special Co	rm any processes	for which summaries of	activities are needed?	Yes ∐	No 🛛
25.	Does the company pendi	nndition F.33 & G	eneral Report "Process /	Activity Summary" apply	T. D. M. M. M. M. M. D. M. M. M. M. M. M.	#/M/M/M/M/M
10 10 10 10	Are special billing conditi	www.w.w.w.w.w.w.w.w.w.w.	e standard Special Cond	litions, needed?	Yes □	No 🖂
26.	Are special billing conditi	ons, other than th	e startuaru opoolur ooris	,		
	If ves. describe:					
	If you Special Co	andition F.4 applie	es.	_	🗀	м. 🗀
	Does General Re	enort "Discharge \	Volume for Billing" apply	?	Yes ∐	No 📙
					Yes 🔛	No 🔲
	Does General Ro Are any Special Condition	eport Custom No	W W W W W W W W W W W W W W W W W W W	ONE MONTH AND MONTH WINDOWS NOW WORLD ON THE WORLD	Yes 🔲	No M
# # # # A	Are any Special Condition	ins, other than the	standard special condit	ions, requirea?	res 🗀	IAO 🔯
27.	Are any Openiar Contains	,				
	If yes, explain: _	Sandition applies?				
	Which Special C	ondition applies?	L - 40		Yes □	№П
	Is supporting do	cumentation attac	nea?		100	
	If no ex	nlain:			—	—
	Door General R	enort "Custom No	on-Standard" apply?		Yes 🔲	No 📙
	Does General IV	CHARACA A RACACACACACACA	WWW.WWWWWWWWWWWWWWWWWW	Character Charles Charles	Yes 🔲	No 🛛
28.	Is user a hauled waste in	ndustry, dischargi	ng its wastewater at the	Hauled waste Station:		No 🗆
20.	If you have ner	mit title cover nac	ge language, & general c	onditions been modified	? res	МО
	if yes, have pen	Nameditions B.O. D.	13, H.1, and H.2 apply.	······································		e ano especialista de la composición d
	If yes, Special C	ONGIUONS D.S. D.	and the second section of the second section of the second section of the second section secti	しは はれる あまれる はましんがればはなかん	Yes □	No 🔯
29	Is user classified as a C	ategorical Industr	ial User (CIU)?		100 [140 823
23	is user classified as a C If yes, complete	part 2 of checklis	t. If no, STOP here.	NO DO SOCIETA NO DE SOCIETA (DE SOCIETA DE SOCIETA DE SOCIETA (DE SOCIETA DE SOCIETA (DE SOCIETA DE SOCIETA (D	(188781/M/M/M/M/M/M/M/M/M/M/M/M/M	(M)M/M/M/M/M/A
11/11/11/						
	t all the Special Conditions	from Part 1 that a	re applicable to this perm	nit.		
Lis	t all the Special Conditions t those that are specific to a t those that are not specific	s compling point o	n that sampling point's fa	act sheet, too.	00.46-4-6-	
Lis	t those that are specific to a	to a sampling point	nt on the "Special Condi	tions Not Tied to Specifi	C SPS" fact snee	et, 100.
LIS	t those that are not specific	to a sampling po-				
		eneral Report	Special Condition #	Sampling Point #		
	9	V.10101 1 (V)				
			F.1	N/A		
	F	Rad.Discharge	E.18	N/A 000 003		
	<u>.</u>		D.10	<u>001, 002, 003</u>		
		***************************************	<u>D.1</u>	<u>002</u>		
		- Communication of the Communi	<u>E.4</u>	<u>002</u>		
			D:10 D:1 E:4 D:3	<u>N/A</u>		
				Annual Control of Cont		
		And the state of t		**************************************		
RI	EV 07/2011		2			



Metropolitan St. Louis Sewer District

Division of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913 Phone: 314,768,6200 www.stlmsd.com

December 28, 2007

Skip Bowders, Energy Center Supervisor ST LOUIS UNIVERSITY HOSPITAL 3635 Vista Ave; P.O. Box 15250 St. Louis, MO 63110

Re: Discharge Permit No: 4112195100 - 1

For premise at:

3635 & 3655 Vista Ave. St. Louis, MO 63110

Dear Mr. Bowders:

On December 13, 2007, the Metropolitan St. Louis Sewer District adopted new Sewer Use Ordinance No. 12559. This ordinance becomes effective January 1, 2008, and replaces Ordinance No. 8472. As a result, your Industrial Wastewater Discharge Permit is modified as per the attached modified permit for the above premise. We have reissued the entire permit for your convenience.

Among the changes in the new ordinance, it raises the limits for TTO and it updates the restrictions on radioactive materials to the sewer system. The new restrictions more closely parallel State and Federal regulations.

MSD Ordinance No. 12559 limits the discharge of radioactive materials to sewers to what is allowed under your Nuclear Regulatory Commission and/or Missouri Department of Health licenses. The old ordinance restricted the aggregate discharge from all users to one curie/year for each sewage treatment plant. Please note that all radioactive material discharged to the sewer system must continue to be readily soluble or readily dispersible biological material, in water,

If, at any time, the current level of radioactive materials discharge will increase by 20 percent or more, you must notify MSD, in writing at least ten business days prior to the date of the planned increase. This requirement is contained in Article VIII, Section Six of Ordinance No. 12559.

As a condition of the District's approval, you must continue to submit a completed copy of the Radioactive Materials Discharge Report to the District on a quarterly basis. This approval does not relieve you of any requirements set forth under applicable state or federal regulations. In addition, you must continue to meet all provisions of MSD District Ordinance 12559.

Thank you for your assistance in helping us to comply with state and federal regulations. If you have any questions, please call me at 314.436.8756.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer, Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit

cc: Doug Mendoza Jim Goodall

PRIORITIES

PERFORMANCE

SERVICE

METROPOLITAN ST. LOUIS SEWER DISTRICT DIVISION OF ENVIRONMENTAL COMPLIANCE INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195100 - 1

EFFECTIVE DATE:

January 01, 2008

EXPIRATION DATE:

December 31, 2011

ISSUED TO: ST LOUIS UNIVERSITY HOSPITAL

3635 & 3655 Vista Ave.

P.O. Box 15250 St. Louis, MO 63110

SIC NUMBER(S): 8062, 8063

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 5 SAMPLING PT. REF NUMBER(S): 001, 002, 003, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local. State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer

Assistant Engineer

Doublas M. Mendoza, P.E.

Mar. of Industrial Pretreatment

Page No.: Effective Date: <u>4112195100 - 1</u>

2

January 01, 2008

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

MH in driveway W of loading dock at SW corner of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 77,279

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water (HVAC) + Sanitary + Hospital Waste (including x-ray waste) + Kitchen Waste + Boiler Blowdown + Storm Water

001

Parameter	Limit *	Limit Type **	Sampling Frequency
Faranteter	Land 1 1 1 1 5	1,00	1109401103
Biochemical Oxygen Demand (5 Day)	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand	***	Daily Avg	Once/3 mo
Flow [GPD]	大大 大	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

Page No.:

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Effective Date:

January 01, 2008

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DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

MH on Vista, 15' S of sidewalk, 36' E of island S of main hospital building

AVERAGE WASTEWATER FLOW (GPD): 38,639

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste (including x-ray waste) + Storm

002

Water

Parameter	Limit *	Limit Type **	Sampling Frequency
	***	D . 11. A	0
Biochemical Oxygen Demand (5 Day)		Daily Avg	Once/3 mo
Chemical Oxygen Demand	***	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
	11.5	Instant	Once/3 mo
pH [SU]			Once/3 mo
pH [SU]	5.5	Instant	Once/s mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- See Section I.A.2 of the permit conditions.
- Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

Page No.:

Effective Date:

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January 01, 2008

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER:

003

SAMPLING POINT LOCATION:

MH 54' E of SW corner of West Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 4,000

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand	女会女女	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Femperature [Deg C]	60	Instant	Once/3 mo
Fotal Suspended Solids	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section Il of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- See Section I.A.2 of the permit conditions.
- Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- See Section I.A.11 of the permit conditions.

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Page No.: Effective Date:

5 January 01, 2008

DISCHARGE LIMITATIONS

004

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION: 6" t-vent inside W Pavilion parking garage 10' N, 18' E of SW corner

AVERAGE WASTEWATER FLOW (GPD): 612

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water + Storm Water

Parameter	Limit *	Limit Type **	Sampling Freque n cy
Chemical Oxygen Demand	***	Daily Avg	Once/year
Flow [GPD]	***	Daily Avg	***
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids	***	Daily Avg	Once/year
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year

^{*} Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

^{**} See Section I.A.2 of the permit conditions.

^{***} Report a measured or estimated average daily flow for at least one representative operating day per guarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

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Effective Date:

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January 01, 2008

DISCHARGE LIMITATIONS

005

SAMPLING POINT REFERENCE NUMBER:

SAMPLING POINT LOCATION:

MH 93 'S, 9'W of NW corner of W Pavilion building

AVERAGE WASTEWATER FLOW (GPD): 2,500

WASTEWATER SOURCE AND CATEGORY: Sanitary + Hospital Waste + Storm Water

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	***	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

^{**} See Section I.A.2 of the permit conditions.

^{***} Report a measured or estimated average daily flow for at least one representative operating day per guarter. If additional flow measurements or estimates are made, all must be reported.

^{****} See Section I.A.11 of the permit conditions.

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January 01, 2008

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

- 1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.
 - 2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A DAILY MAX limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A MONTHLY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A 4-DAY AVG limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive <u>sampling</u> days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is <u>any</u> sample collected within a 24-hour period.

- 3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:
 - a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
 - b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.
 - c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

Permit No.: Page No.:

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Effective Date:

January 01, 2008

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

- 5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.
- 6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.
- 7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous temperature and/or pH monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, the total time for all excursions for temperature and the total time for all excursions for pH.
- 8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.
- 9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:
 - a. All facility and sample description information required on the District's reporting form.
 - b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
 - c. Daily flows, with dates, for all measurements or estimates made within the quarter.
 - d. Any certification statements required pursuant to the Special Conditions in Section II.
 - e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for <u>each</u> calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. The first report, under the terms of this permit, is due by April 28, 2008.

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

Permit No.: 4112195100 - 1 Page No.: 9 January 01, 2008

Effective Date:

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

- The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.
- The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.
 - As defined in Article II of District Ordinance 12559, significant new or increased discharge means: 3.
 - Any discharge from a new process or facility or a new source.
 - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the C. permittee's discharge.
 - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
 - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
 - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

- Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.
- In the event of any problem discharge into the District's system, the permittee shall immediately notify the 2. District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

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continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

- 1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.
- 2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

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I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District Division of Environmental Compliance 10 East Grand Avenue St. Louis, Missouri 63147-2913

- 2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.
- 3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

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SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

A.1. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, 003, 004, and 005, may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

B. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

Cert Requirement for Sample Points with less than Quarterly Sampling Frequency B.1.

At sampling point 004 permittee is required to sample the discharge only once per year. For the quarters in which no sampling is performed, permittee shall include, in the quarterly self-monitoring report, a statement that there has been no change in the character of the wastes discharged at sampling point 004 since the last report.

Radioactive Discharge Reporting Requirements B.2.

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- For materials subject to licensing by the Nuclear Regulatory Commission:
 - 5 curies Hydrogen-3
 - 1 curie Carbon-14
 - 1 curie for all other radioactive materials combined
- (2) For all other materials:
 - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

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C. SPECIAL BILLING REPORTING REQUIREMENTS

C.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on sixty-eight (68) percent of the used water (on an annual basis) being discharged to the District from account numbers 00447331 and 00208067. The permittee shall notify the District's Department of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DOCUMENTATION FORM for PERMIT MODIFICATION

P	е	r	n	٦	it	to	þε	ا ڊ	٧	lo	d	if	ie	d:	

Company Name: ST LOUIS UNIVERSITY HOSPITAL

Location: 3635 & 3655 Vista Ave, STL, MO 63110

Permit No: 4112195100

Original Effective Date: 01/01/2007

Modification Effective Date: 01/01/2008

What is to be Modified:

Briefly explain what is to be modified and then list the pages & how affected::

Sewer Use Ordinance 12559 in effect; Radioactive & TTO limits up

Pg. # 1 Effective date

Pg. # 2-6 For SP's, Limit change for TTO

Pg. #8 First report due date

Pg. # 12 SC E.18 Radioactive Discharge Reporting Requirements

Pg. # ____

Pg. # ____

Pg. # _____

Pg. # _____

Reasons for Modification:

Cite regulation, policy, etc. and identify any other documents which support the modification:

MSD Ord. 12559 adopted 12-13-2007; effective 01-01-2008; supercedes Ord. 8472.

Prepared by: S. Rehmer	Date: 12-27-2007	Permit Modified by: S. Rehmer	Date: 12-27-2007
Reviewed by: 2MM	Date: 12-77-77		

ACCOUNT NUMBER: 10205488-00

COMPANY NAME: ST LOUIS UNIVERSITY HOSP

CORRESPONDENCE

RIGHT SIDE

FROM <u>10-21-91</u> THRU <u>12-16-09</u>

LEFT SIDE

FROM <u>12-18-92</u> THRU <u>01-20-06</u>

X CORRESPONDANCE LOCATED IN ARCHIVE FILES